

TECHNOPEDIA

A Quarterly Newsletter

Department of Computer Application, Echelon Institute of Technology, Faridabad

VOLUME-XVI ISSUE-I

JULY-SEP-2024

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

*Vishvendra Singh
(Assistant professor, DCA Department)*

Highlights

- ❖ **Message from the Editor**
- ❖ **Vision and Mission**
- ❖ **Student Speaks**
- ❖ **Latest Trends in Computer Science**
- ❖ **Activities in the department**
- ❖ **Anti-Ragging Celebration**
- ❖ **Independence Day Celebration**
- ❖ **Orientation Day**
- ❖ **Dental Health Checkup Camp**
- ❖ **Wellness Workshop**
- ❖ **Faculty Achievements**

Message from the Editor

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

Institute Vision and Mission

Vision:

The institute is committed to fulfilling its vision of "Technical and Management leaders engaged in the evolution of life, being at the frontiers of the continuous technological and administrative breakthroughs, inspired by ongoing exploration

of self, society, and nature through 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.

Department Vision and Mission

Vision:

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

Mission:

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

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

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

Student Speaks

Echelon Institute of Technology is a premier educational institution in Faridabad with a well-built infrastructure and state-of-the-art facilities. The classrooms and washrooms are clean and hygienic, and the library is centrally air-

conditioned. Smart boards and projectors are used in all classrooms to ensure efficient teaching. The professors are helpful and supportive, and the college offers numerous opportunities for students to grow and develop. I had a wonderful time at Echelon, and I believe it is worth the investment.

- PIYUSH JOSHI(22-BCA-033)

Latest Trends in Computer Science

Quantum Computing

Recent breakthroughs in quantum algorithms from major tech companies have sparked renewed interest in quantum computing's practical applications. These advancements promise to enhance capabilities in fields such as cryptography, where quantum algorithms could potentially break traditional encryption methods, prompting the development of quantum-resistant security solutions.

Additionally, optimization problems, which are critical in logistics, finance, and manufacturing, stand to benefit significantly from quantum computing's ability to process vast datasets and evaluate multiple variables simultaneously.

Companies are actively exploring quantum algorithms that can efficiently solve these complex problems, paving the way for innovations that were previously unattainable with classical computing.

As research continues, partnerships between academia and industry are becoming more common, aiming to translate theoretical advancements into real-world applications. This convergence could revolutionize various sectors, making quantum computing a pivotal area of focus for technological progress in the coming years.

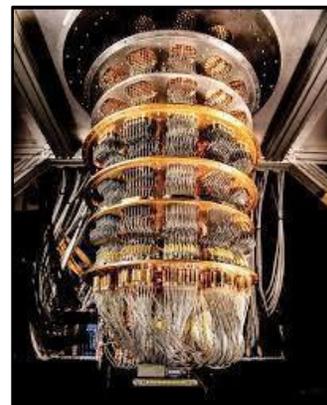


Fig1-Quantum Computing

Internet of Things(IoT)

The Internet of Things (IoT) is revolutionizing our daily lives by connecting everyday objects to the internet, allowing them to collect and

exchange data. This interconnected network includes a wide range of devices, from household items like smart thermostats and refrigerators to industrial machinery. IoT enhances convenience, efficiency, and decision-making across various sectors.

In smart homes, IoT devices improve energy efficiency and security by learning user preferences and automating tasks. In healthcare, wearables monitor vital signs and provide real-time health data to patients and doctors, enhancing remote care. Agriculture benefits from precision farming, where sensors optimize irrigation and monitor crop health. Transportation systems use IoT to reduce traffic congestion and improve safety through connected vehicles.

However, IoT also brings challenges such as security vulnerabilities, data management issues, and the need for standardized protocols. Addressing these concerns is crucial for the sustainable growth of IoT. As the technology continues to evolve, IoT promises to further integrate into our lives, driving innovation and transforming how we interact with the world.



Fig2-IoT

Activities in the department

Department Orientation

On August 1st, the Department of Computer Applications hosted an engaging Orientation Day for new students. The event aimed to familiarize them with the curriculum, faculty, and resources available. Interactive sessions and Q&A segments provided valuable insights, fostering a sense of community among students. We look forward to an exciting academic year ahead!



Glimpses of Orientation Day

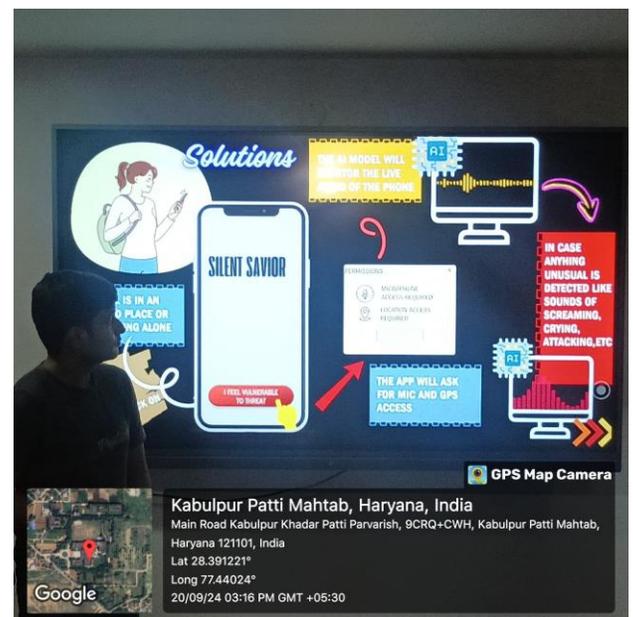
Engineers Day Celebration

On September 20th, the Department of Computer Applications celebrated Engineers' Day with enthusiasm and creativity. The event featured inspiring talks from faculty and industry experts, along with engaging workshops and competitions. Students showcased their

innovative projects, highlighting the importance of engineering in technology. It was a day of learning, collaboration, and celebration of the engineering spirit!



+91 9999753763 www.eitfaridabad.com



Glimpses of Engineers Day

Internal Hackathon



Glimpses of Internal Hackathon Poster

On September 6th, the Department of Computer Applications organized an exciting Internal Hackathon, bringing together students to showcase their coding skills and creativity. Teams worked collaboratively over 24 hours to develop innovative solutions to real-world problems. The event fostered teamwork and critical thinking, culminating in impressive projects. Winners were awarded for their outstanding contributions, making it a memorable experience for all participants. We look forward to more such initiatives!

Anti-Ragging Celebration

Students can participate in a variety of anti-ragging activities to create a safe and inclusive

learning environment, such as listening to speakers, sharing personal experiences by skits, rangoli competition, signing pledges, putting up posters, and organizing walkathons or rallies. These activities can help raise awareness about the issue of ragging, educate students about its consequences, and show solidarity with victims.



As a Member of "The EITC Group"

ECHELON
TRANSFORMING THE EDUCATION

18th Anniversary

विकसित भारत
अभियान
1947 - 2024

75th
Azadi Ka
Amrit Mahotsav

INSTITUTION'S
INNOVATION
COUNCIL

**ANTI-RAGGING WEEK
CELEBRATION SECHDULE**

SR. NO.	PARTICULARS	TIMING	VENUE	FACULTY/ STAFF INCHARGE
01	Poster Making Competition	1.00 PM to 3.00 PM	Hawa Mahal	Dr. Poonam Rani & Dr. Mamta Thakur
02	Essay Writing Competition	1.00 PM to 3.00 PM	G-12	Ms. Sunita, Ms. Veronica Verma & Mr. Manish Dagar

August 16, 2024

03 day

+91 9999753763

www.eitfaridabad.com

Glimpses of Anti ragging week Poster

Independence Day Celebration

On August 15th, Echelon Institute of Technology proudly organized the "Her Ghar Tricolor Yatra" to commemorate Independence Day. The event aimed to instill a sense of patriotism and unity among students and faculty. Participants enthusiastically carried the tricolor as they marched through the campus, celebrating our rich heritage and values. Cultural performances and speeches further enriched the occasion, making it a heartfelt tribute to our nation. We thank everyone for their spirited participation!

As a Member of "The EITC Group"

ECHELON
TRANSFORMING THE EDUCATION

18th Anniversary

विकसित भारत
अभियान
1947 - 2024

75th
Azadi Ka
Amrit Mahotsav

INSTITUTION'S
INNOVATION
COUNCIL

**HAR GHAR
TIRANGA
CAMPAIGN**

14 August, 2024 02:30 PM

+91 9999753763

www.eitfaridabad.com



Glimpses of Har Ghar Tringa Yatra

Orientation Day (2024-2025)

Hundreds of eager students gathered on Echelon Institute of Technology's campus on August 21st, 2024, for Orientation Day, marking the official commencement of their academic journey. The day was filled with informative sessions, interactive activities, and a warm welcome to the vibrant campus community. As

the newest members of the Echelon family prepare to embark on their academic endeavors, the institution remains committed to providing them with the support and resources they need to succeed. The future looks bright for the newest members of the Echelon family.



WELCOME
दीक्षा उत्सव

CHIEF GUEST- HON'BLE GOVERNOR OF HARYANA

SHRI BANDARU DATTATREYA

21 AUGUST 2024

+91 9999753763

www.eitfaridabad.com

नौकरी के लिए नहीं, जीवन सार्थक बनाने के लिए अर्जित करें ज्ञान : राज्यपाल



एसलान इंस्टीट्यूट आफ टेक्नोलॉजी के दीक्षा समारोह में छात्रा को डिग्री देकर सम्मानित करते राज्यपाल बंडारु दत्तात्रेय • सौ. कालेज

जागरण संवाददाता, फरीदाबाद : एसलान इंस्टीट्यूट आफ टेक्नोलॉजी में आयोजित हुए दीक्षा समारोह में मुख्य अतिथि के रूप में शिरकत करते हुए प्रदेश के राज्यपाल बंडारु दत्तात्रेय ने कहा कि छात्रों को नौकरी पाने के लिए नहीं बल्कि जीवन सार्थक बनाने के लिए ज्ञान अर्जित करना चाहिए। तभी जाकर छात्र सही मायनों में सफल हो पाएंगे। इस अवसर पर एसलान इंस्टीट्यूट के अध्यक्ष प्रभात अग्रवाल एवं निदेशक डा. सुदर्शन गोस्वामी भी मौजूद रहे।

राज्यपाल ने 400 छात्राओं को डिग्री देकर सम्मानित किया। उन्होंने कहा कि छात्र जब जीवन सार्थक बनाने के लिए ज्ञान अर्जित करेंगे तो वह नौकरी हासिल करने वाले नहीं नौकरी देने वाले बन जाएंगे। इससे

एसलान इंस्टीट्यूट आफ टेक्नोलॉजी में आयोजित दीक्षा समारोह में राज्यपाल बंडारु दत्तात्रेय ने की शिरकत

देश की आर्थिक गति का पहिया भी तेजी से घुमेगा। उद्योग हर देश की रीढ़ होते हैं। ऐसे में छात्रों को नौकरी पेशा नहीं बल्कि उद्यमी बनने के बारे में आगे बढ़ना चाहिए। यहाँ से डिग्री लेकर निकले छात्रों के सामने अब बाजार की चुनौतियाँ होंगी। राज्यपाल ने लिंग्याज विद्यापीठ में दीप प्रज्वलित कर सभागार रंगमंच का उद्घाटन किया। उन्होंने छात्राओं से कहा कि शिक्षा के साथ साथ जीवन को परिपूर्ण बनाने के लिए सभी गतिविधियों में भाग लेना चाहिए।

Glimpses of Orientation Day



Dental Health Checkup Camp

On September 25th, Echelon Institute of Technology organized a comprehensive Dental Health Checkup Camp for students and staff. The initiative aimed to promote oral hygiene and raise awareness about dental care. Qualified

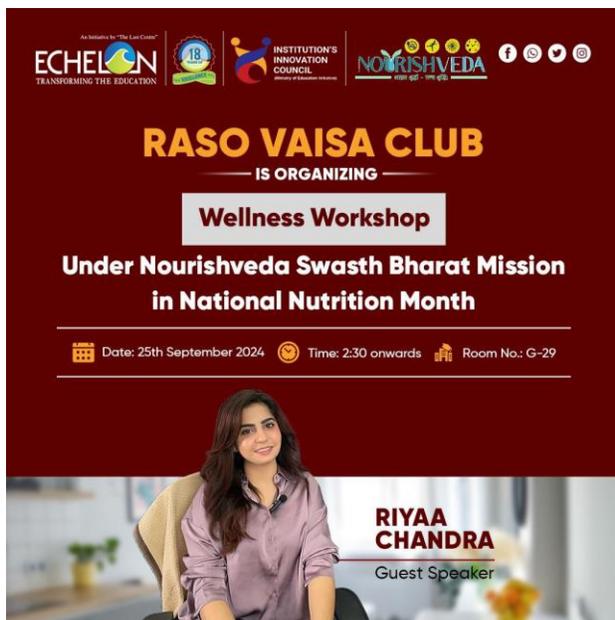
dentists conducted thorough checkups, provided valuable tips, and offered free consultations. Participants received personalized advice on maintaining good dental health. The camp was a great success, highlighting our commitment to the well-being of our campus community. We appreciate everyone who participated!

Glimpses of Dental Health Checkup Camp

Wellness Workshop

On September 25th, Echelon Institute of Technology hosted a Wellness Workshop aimed at promoting mental and physical well-being among students and faculty. The interactive sessions covered stress management, healthy lifestyle choices, and mindfulness practices. Experts shared valuable insights and techniques to enhance overall wellness. Participants engaged in group activities and discussions, fostering a supportive community atmosphere. The workshop received positive feedback, reinforcing our commitment to holistic development and the well-being of our campus community.





Glimpses of Wellness Workshop

Faculty Achievements

Following faculty members of the department participated in several workshops and FDPs:

Ms Tripti Sharma

Participated in one week online Faculty Development program on Palo Alto Cloud Security Fundamentals conducted by ICT Academy on 09 July 2024 to 13 July 2024 at EIT.

Mr Vishvendra Singh

Participated in one week online Faculty Development program on Palo Alto Cloud Security Fundamentals conducted by ICT Academy on 09 July 2024 to 13 July 2024 at EIT.

Ms Darshana Nagar

Participated in one week online Faculty Development program on Palo Alto Cloud Security Fundamentals conducted by ICT Academy on 09 July 2024 to 13 July 2024 at EIT.

Acknowledgement

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

Vishvendra Singh
(Assistant professor, DCA Department)

EDITORIAL BOARD

Teacher coordinator

- Mr. Vishvendra Singh (Assistant Professor)
- Ms. Darshana Bhati (Assistant Professor)

Student coordinator

- Dhruv Tanwar (23-BCA-019)
- Garv (23-BCA-022)
- Abhishek Kumar (22-BCA-101)
- Ansh (23-BCA-012)
- Piyush (22-BCADS-040)

Publisher

Echelon Institute of Technology, Faridabad.

For any queries and suggestions contact:

Vishvendrasingh@gmail.com