

Department of Civil Engineering

July-September-2023

ECHELON INSTITUTE OF TECHNOLOGY



NEWS LETTER July-September 2023

DEPARTMENT OF CIVIL ENGINEERING



Echelon Institute of Technology, Faridabad

ECHELON INSTITUTE OF TECHNOLOGY, FARIDABAD

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.

ECHELON INSTITUTE OF TECHNOLOGY, FARIDABAD

DEPARTMENT OF CIVIL ENGINEERING VISION AND MISSION

Vision

“To **Create** quality Civil Engineering Professionals having ethical and moral values who can serve the society as technocrats, innovators, academicians & entrepreneur, able to uplift the quality of life by providing the sustainable quality environment to the society through the creation of excellent infrastructure and public health facilities.”

Mission

- i. To maintain high quality labs to ensure sufficient technological exposure to the students in order to create tech-savvy professionals.
- ii. To impart adequate softwares exposure required for planning and designing of infrastructures.
- iii. To ensure effective counseling and career guidance facilities to the students to help them achieve their goals.
- iv. To motivate the students to participate in the national level examination such as GATE/ CAT/ Engineering Services etc.
- v. To have well qualified and competent faculty members in the department who are in position to impart quality technical education.
- vi. To encourage faculty and staff members to participate in seminars and workshops for their awareness of state-of-the-art technology.
- vii. To encourage the faculty and staff members to pursue higher education and research.

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FROM THE DESK OF EDITIOR IN CHIEF

It gives me immense pleasure to present the latest trends in Civil Engineering. The period has been packed with variety of activities in the hectic and tight academic schedule. This edition of the newsletter summarizes the achievements and highlights of the semester. I would like to take this opportunity to present the readers with the glimpses of the week and other activities of the Civil Engineering Department. In this quest, I would like to keep you up –to-date with the happenings of the department. And hence, present you with this half yearly newsletter. You can know the details as you go through the newsletter. Every faculty made an effort to avoid the boredom of class room lectures and ample opportunities were provided for personality development of the students and enhancement of their skills as per their choice/ area of interest through hobby clubs and industrial visits. This approach helps maintaining a very healthy and conducive atmosphere of learning, keeping the students in an excited state eager to grasp knowledge at all times. The department is scaling new heights with such positive approach.

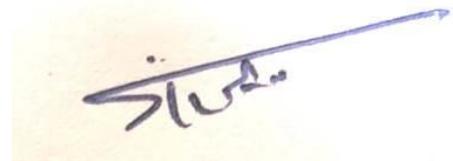


Mr. Mukul Attri
Assistant Professor
Department of Civil Engineering
EIT Faridabad

ENDEAVOUR BY HOD

The Aim of our department is to provide quality education. The process of learning is extremely important in life. What you learn, how you learn and where you learn play a crucial role in developing ones intellectual capability, besides career. I am proud to see that the students and faculty of our department have put in appreciable effort into creating this newsletter. This newsletter highlights the academic and non-academic activities of both faculty and students of the Department of Civil Engineering.

I congratulate the editorial team for their brilliant and original efforts. I wish all the students and faculty a great academic career



Dr. Sindhu Kumar
HOD Civil Engineering
EIT, Faridabad

ABOUT THE DEPARTMENT

Civil Engineering is the application of physical and scientific principles, and its history is intricately linked to advances in understanding of physics and mathematics throughout history. Because civil engineering is a wide ranging profession, including several separate specialized sub-disciplines, its history is linked to knowledge of structures, materials science, geography, geology, soils, hydrology, environment, and mechanic sand other fields.

The course cover basic sciences, Mathematics, Engineering graphics, computing techniques along with the fundamental Engineering principles of construction materials, Building Drawing and Laboratory classes interesting of materials help to understand Civil Engineering in a practical way. Software packages like AutoCAD, STAAD Pro allows our students to expand their skills and provide an adequate platform to perform analysis, design and drawing for a wide range of civil Engineering buildings and other heavy structures viz. Roads, bridges, flyovers, dams, etc.

Every semester students will be taken for Industrial Visits to various Construction sites and water Treatment Plant, Atomic Power stations, Dams and places of interest to impart Practical Knowledge. In addition, the students have to undergo practical Training for 2- 3 weeks in any Construction industry to gain practical experience and technical skills. The students are also encouraged to give seminars on current areas of research. To acquire high degree of engineering skills and to translate brilliant ideas into a working reality.

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Achievements in Department

1. Mr. Sindhu Kumar has completed his Ph.D in *Femtosecond Laser Technique in Solid for Ultrafast Electronic and Structural*.



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Congratulation
on your PhD Completion

Congratulations Dr. Sindhu Kumar on your PhD completion in *Femtosecond Laser Technique in Solids for Ultrafast Electronic and Structural Dynamics*.

Dr. Sindhu Kumar



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2. Mr. Mukul Attri has Participated in 5 days Faculty Development program on Microsoft Power BI Data Analyst Associate.



Anti-ragging Day celebration

The campus celebrated Anti-Ragging Day on August 11, 2023, with great enthusiasm. Students engaged in a variety of activities including poster making, essay writing, slogan writing, and rangoli making. Participants were recognized for their efforts with certificates and prizes. Furthermore, students delivered a poignant Nukkad Natak, shedding light on the issues surrounding ragging and its repercussions. The vibrant atmosphere of the event resonated with the collective commitment towards fostering a safe and inclusive campus environment. Through creative expressions and thought-provoking performances, students reaffirmed their dedication to upholding values of respect and dignity for all. Anti-Ragging Day served as a poignant reminder of the collective responsibility to cultivate a culture of mutual respect and support within the campus community.



Orientation Day Celebration ~ Diksharambh 2023

Orientation program 2023 was conducted for 1st year students in two phases.

On 19th Aug 2023, BBA and BCA students were welcomed. The event was organized beautifully followed by *Hasya Kavi Samelan* and then a wholesome lunch.

On 9th Sep 2023, Students of B.Tech, M.Tech, MCA and MBA were welcomed. A motivational Speaker, Mr. Shikhar Prajapati was invited at the event. He interacted with the students and motivated them with his words of wisdom.

A Band called Azaadi was invited at the event. All the faculty members, students and staff enjoyed the mesmerizing performance of the band.

Additionally, a Club Exhibition was organized, where students had the opportunity to showcase both their minor and major projects.

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Real Estate Investment Opportunities

The Indian real estate market is poised for continued growth in 2024, creating exciting investment opportunities across various sectors. Here's a breakdown of some promising avenues without any images:

1. Affordable Housing:

- High demand: Government initiatives and rising urbanisation fuel a vast market with consistent demand for affordable housing.
- Stable returns: Lower risks and high occupancy rates in this segment offer stable and predictable returns for investors.
- Government incentives: Schemes like PMAY provide financial assistance and tax benefits, making it attractive for developers and investors.

2. Tier 2 & 3 Cities:

- Rapid growth: Infrastructure development attracts businesses and residents, increasing demand for housing and commercial spaces in these cities.
- Lower entry costs: Compared to metros, lower property prices make them accessible to a wider range of investors.
- High potential for appreciation: Growing populations and economic activity are expected to significantly appreciate property values over time.

3. Co-living & Student Housing:

- Growing trend: Changing lifestyles and rising student populations drive demand for co-living spaces and student housing.
- Recurring income: These properties offer stable rental income with minimal maintenance compared to traditional rentals.
- Professional management: Specialised companies manage co-living spaces, providing investors with a hands-off approach.

4. Retail:

- Changing consumer preferences: While online shopping exists, consumers still seek experiential retail spaces offering convenience and community.
- Neighbourhood retail: Convenience stores, pharmacies, and essential service providers in high-density areas can be profitable investments.

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- Mixed-use developments: Retail spaces integrated with residential or commercial complexes offer unique investment opportunities.

Remember:

- Conduct thorough research: Carefully research the project, developer, and market conditions before investing.
- Seek professional advice: Consult financial advisors and real estate experts to understand risks and potential returns.
- Align with your goals: Choose an investment strategy that aligns with your risk tolerance, investment horizon, and financial objectives.



Conclusion

India is the second largest industry as it employs more than 35 million people and contributes to about 10% of the country's GDP. The sector has seen strong growth in recent years, with the government's push for infrastructure development and housing.

The Indian construction industry is expected to grow even further in the coming years. This growth is driven by the government's continued focus on infrastructure development, as well as the growing demand for housing. With the right policies in place, the construction industry in India has the potential to become one of the world's leading industries.

