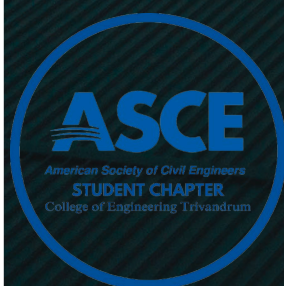


# THE CIVIL VISION

ASCE CET MAGAZINE

WHERE THE VISION MEETS STRUCTURAL INTEGRITY



YEARLY EDITION

2025

American Society of Civil Engineers CET



The image features a large blue circle centered over a night-time city skyline. Inside the circle, the letters "ASCE" are prominently displayed in a bold, blue, sans-serif font. The "A" is stylized with three horizontal lines extending from its left side. The background shows a city with various skyscrapers and buildings, some of which are illuminated. A body of water is visible in the foreground, reflecting the city lights. The overall color palette is dominated by the blue of the circle and text, and the dark tones of the night city.

# ASCE

*American Society of Civil Engineers*  
**STUDENT CHAPTER**  
College of Engineering Trivandrum

American Society of Civil Engineers CET



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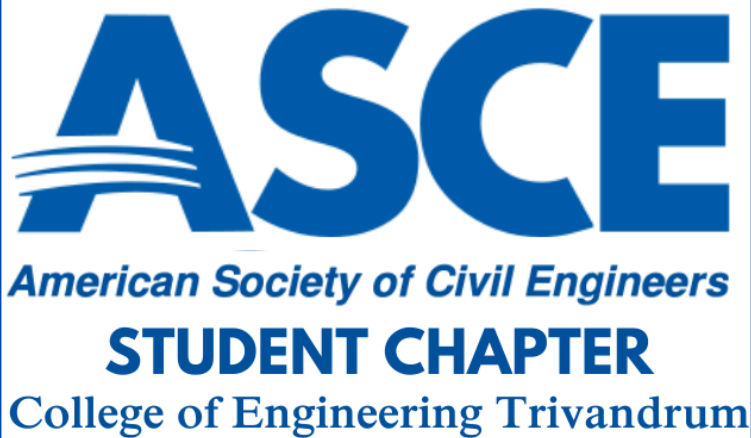
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 [American Society of Civil Engineers CET](#)

**American Society of Civil Engineers CET**



# ASCE CET STUDENT CHAPTER



## OVERVIEW

The ASCE CET Student Chapter currently has a strong membership base, with 300 student group members who are also enrolled as ASCE national society level members. Over the year, the chapter conducted several impactful activities, including multiple panel members' meetings to guide planning and decision-making. To enhance practical exposure and learning, the chapter organized field trips and webinars. In addition, students actively participated in competitions and hands-on workshops, all designed to foster technical skills, teamwork, and industry readiness among future civil engineers.

The ASCE Student Chapter is a vibrant community that brings together aspiring civil engineers to foster learning, innovation, and professional growth. It serves as a bridge between academic knowledge and industry practices, providing students with hands-on experiences through technical workshops, expert talk sessions, site visits, and collaborative events.

The chapter aims to cultivate leadership qualities, teamwork, and a strong ethical foundation among its members. By engaging with professionals, participating in national-level activities, and expanding their network, students gain invaluable exposure and insights that prepare them for successful careers in the civil engineering industry.



## The Minds Behind the Mission

### **Expert Guidance for our Success!**

We sincerely thank our respected advisors, for their invaluable guidance and unwavering support towards the ASCE CET Student Chapter. Their expertise, encouragement, and steady mentorship have played a vital role in shaping our activities and vision. With their constant motivation and constructive feedback, we have been able to pursue meaningful initiatives that enrich both our technical knowledge and leadership skills. Their dedication continues to inspire us to uphold the values of professionalism, innovation, and excellence in civil engineering.



Faculty Advisor  
Dr. Anusha S P



Practitioner Advisor  
Dr. Abhijith S



Practitioner Advisor  
Dr. Kishor P

## VISION

To nurture civil engineering students to become future civil engineering leaders to serve the society.

## MISSION

- To foster student members from the fundamental to wider engineering knowledge.
- To adapt them with a broad set of skills and technical know how on the fields of emerging technologies and new developments in professional practices.
- To develop leadership and inquisitive attitude for creating innovative solutions to serve the society.



# Inspirations at the Helm

## A Word from Our Principal

*"Civil engineering is more than a profession—it is the art of shaping the world we live in. I am proud to see our students building not just structures, but a future rooted in innovation, sustainability, and service to society. May they continue to rise as the pillars of progress."*

— Dr.Suresh K, Principal

## With Appreciation – From the HoD

*I extend my heartfelt appreciation to the ASCE CET Student Chapter for its remarkable contributions to the growth and development of our civil engineering students. The club has consistently provided a platform for learning, leadership, and innovation, enabling students to gain practical insights and stay connected with the evolving industry. I commend the dedication of the student team and faculty advisors whose efforts have brought pride to the department and inspired a culture of excellence.*

–Dr. Jaya V

Head of the Department, Civil Engineering

## Our Beloved Advisor

*I am truly proud to see the passion and dedication each one of you brings to the ASCE CET Student Chapter. Your enthusiasm to learn, lead, and innovate is inspiring. Remember, every small effort you put in today builds the foundation for a stronger, brighter future in civil engineering. Keep pushing boundaries, stay curious, and support each other. Together, you will achieve great heights!*

–With warm wishes,  
Dr.Anusha S P

## Voices of Leadership

*It's an honor to lead the ASCE CET Student Chapter, a platform where passion for civil engineering meets opportunity and innovation. Together, we are building not just structures, but skills, friendships, and futures. I encourage every member to actively participate, learn, and contribute — because it is through our collective effort that we can truly make a difference. Let's keep pushing boundaries and shaping the world around us with creativity and dedication.*

–Adarsh C T

President, ASCE CET Student Chapter



# Purpose, Progress, and Possibilities:

## Our Goals

# 1

To foster a more inclusive and dynamic student community, the primary goal is to engage all civil engineering students in the ASCE CET Student Chapter. The target was set to increase membership by 30% compared to previous years. As part of the action plan, an orientation program was conducted along with a dedicated membership drive aimed at first-year students to raise awareness and encourage participation. As a result of these efforts, the chapter witnessed a significant increase in involvement, achieving a 25% rise in membership and laying a strong foundation for future growth and student engagement.

### Impart Skills and Knowledge for Academic and Industrial Growth

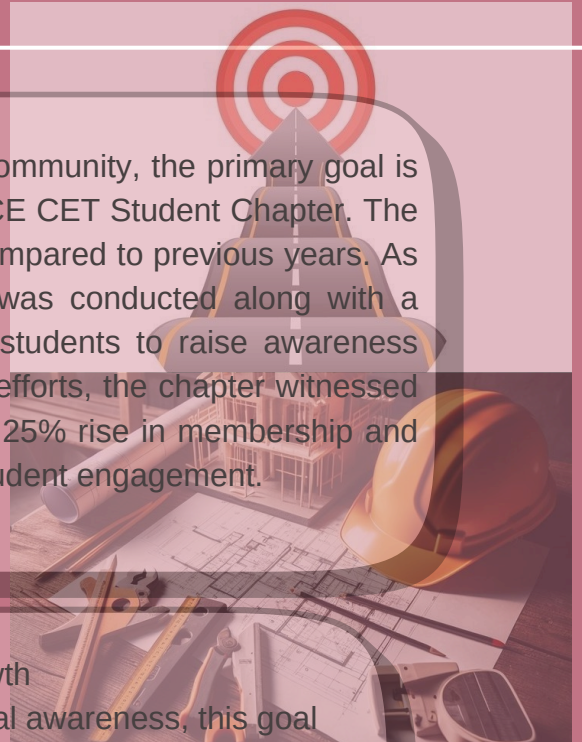
Aiming to strengthen both academic performance and industrial awareness, this goal focuses on equipping members with essential skills and knowledge relevant to their studies and future careers. The target was to identify each student's strengths and weaknesses and provide tailored opportunities to support their professional development. To achieve this, a series of strategic initiatives were implemented, including the organization of workshops, competitions, and expert-led talk sessions. As part of this action plan, the chapter successfully conducted 3 competitions, 3 workshops, 2 insightful talk sessions, and even facilitated a site visit, thereby creating a well-rounded learning experience for the members.

# 2

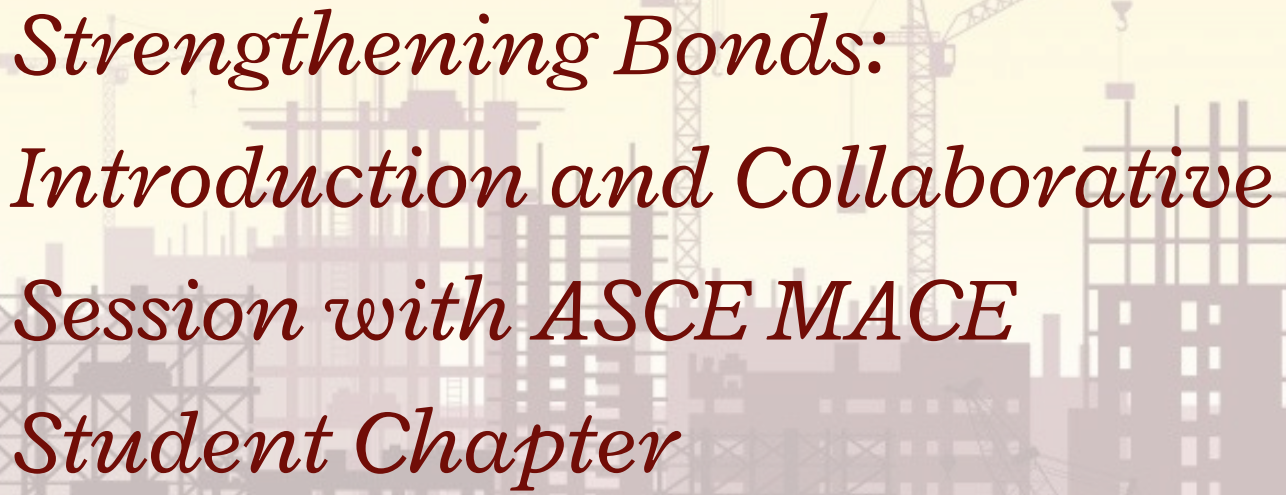
# 3

### Expand Professional Network and Industry Connections

To bridge the gap between academia and industry, this goal focuses on expanding the chapter's professional network by building strong connections with industry experts and thought leaders in the civil engineering field. The target was to enhance these networks through active engagement and collaboration. As part of the action plan, the chapter collaborated with on-campus organizations and inter-college student chapters to boost visibility and participation. These efforts resulted in a successful collaborative session with the ASCE MACE Student Chapter and a talk session in partnership with a professional learning app, thereby enriching the members' exposure to real-world industry practices and insights.







# *Strengthening Bonds: Introduction and Collaborative Session with ASCE MACE Student Chapter*

Date: August 13, 2024 | Mode: Online | Participants: 80

**T**he ASCE CET Student Chapter proudly hosted an enriching Introduction and Collaborative Session with the ASCE MACE Student Chapter on August 13, 2024, conducted through an online platform. This initiative aimed to foster meaningful interaction and exchange between the two student chapters, encouraging collaboration, shared learning, and a collective vision for growth in the field of civil engineering.

The session witnessed enthusiastic participation from faculty members, club coordinators, and student representatives from both institutions. With a total of 80 participants, the event served as a platform to discuss upcoming activities, share best practices, and explore opportunities for joint initiatives. The meeting not only strengthened inter-chapter relations but also inspired a spirit of teamwork and innovation among budding engineers.

This collaborative effort marks a significant step toward building a united student community under ASCE. This collaborative effort not only deepened inter-chapter relationships but also laid the groundwork for future joint ventures and continuous knowledge sharing. The ASCE CET and MACE chapters aim to carry forward this spirit of unity and innovation through more interactive sessions and impactful events in the coming academic year, paving the way for future partnerships and impactful events.

# "BIOSTOP Challenge: Green Ideas at the Next Stop" Bus Stop Design Competition

Date: September 15, 2024 | Mode: Online

The ASCE CET Student Chapter organized the BIOSTOP Challenge, a unique bus stop design competition held on September 15, 2024, in an online format. The event encouraged students to think beyond conventional design by integrating principles of biomimicry—drawing inspiration from nature to develop sustainable and innovative engineering solutions.

Participants showcased their creativity and technical knowledge through designs that reflected efficiency, functionality, and environmental harmony. The competition served as a platform for young civil engineers to explore nature-inspired approaches in public infrastructure, reinforcing the relevance of eco-conscious design in modern engineering.

With enthusiastic participation and thoughtful presentations, the BIOSTOP Challenge successfully combined engineering innovation with environmental insight, embodying the spirit of futuristic civil engineering.

WinnersThe session concluded with the announcement of winners who actively contributed standout ideas during the collaboration exercise. Congratulations to Ardra M and Jovitta P Jossy from S7 C2, whose innovative inputs and enthusiasm earned them special recognition. were

ARDRA M  
S7 C2

JOVITTA P JOSSY  
S7 C2





# PENS AND PLANS: CELEBRATING ENGINEER'S DAY WITH WORDS"

**SCRIPTING INNOVATION: ENGINEER'S DAY ESSAY WRITING COMPETITION**


**DATE: SEPTEMBER 15, 2024 | MODE: ONLINE**

**A**s part of the Engineer's Day Extravaganza, the ASCE CET Student Chapter hosted a thoughtful Essay Writing Competition on September 15, 2024, inviting young minds to reflect on the role of engineers in shaping the world. Conducted online, the competition was designed to celebrate the spirit of engineering through the power of words

By blending creativity with technical thought, the essay competition served as a platform for students to appreciate the broader impact of their chosen profession. It successfully highlighted that engineering is not only about structures and systems, but also about vision, values, and

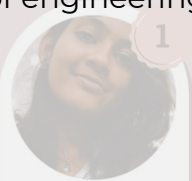
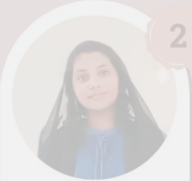
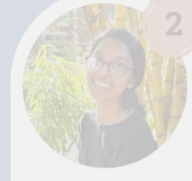

The theme for the contest was deeply rooted in the values of Engineer's Day—innovation, technology, and the lasting contributions of engineers to society. First-year Civil Engineering students were encouraged to express their perspectives on how engineers inspire change and drive progress.

The event saw 4 insightful entries, each offering unique reflections and a fresh take on the challenges and opportunities in the engineering world. Despite the small number, the quality and depth of the submissions reflected the enthusiasm and potential of the upcoming batch.

voice. DEPARTMENT OF CIVIL ENGINEERING 

ENGINEER'S DAY  
ESSAY  
COMPETITION  
WINNERS

Winners were awarded in recognition of their outstanding expression and thoughtful perspectives, encouraging them to continue exploring the creative side of engineering.

 <b>LAVANYA.R.S</b> FIRST YEAR CIVIL	 <b>FATHIMA.N.S</b> FIRST YEAR CIVIL
 <b>SRUTHY JAYARAJ</b> FIRST YEAR CIVIL	 <b>SHERIN SAJU</b> FIRST YEAR CIVIL

COLLEGE OF ENGINEERING TRIVANDRUM



# "SECURE THE INSECURE" DESIGN COMPETITION

## BLUEPRINTS FOR A SAFER TOMORROW: 'SECURE THE INSECURE' DESIGN COMPETITION

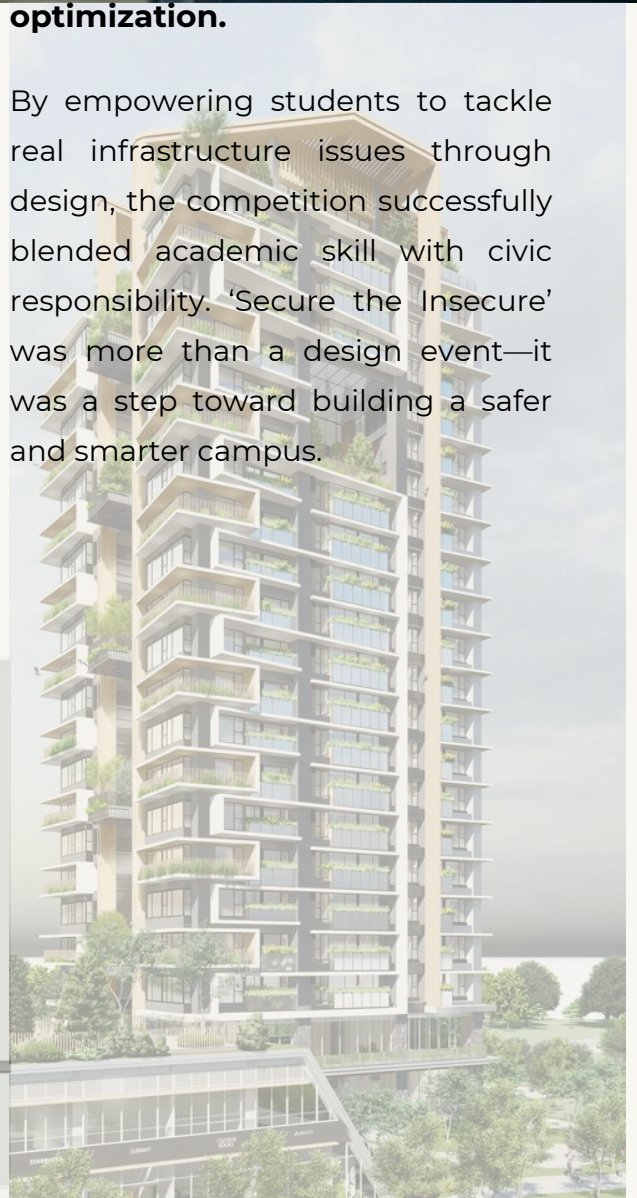
**DATE: OCTOBER 19, 2024**

With creativity and purpose at its core, the ASCE CET Student Chapter hosted the 'Secure the Insecure' Design Competition on October 19, 2024. The event challenged participants to reimagine and redesign the security building near the CET ground, focusing on functionality, aesthetics, and safety.

The competition drew an enthusiastic response, with 10 teams participating, including 2 teams from outside CET, making it a vibrant inter-collegiate affair. The event provided a platform for students to apply their technical knowledge and design thinking to solve a real-world problem, reinforcing the importance of practical learning in civil engineering.

Participants were judged on criteria such as innovation, feasibility, user-friendliness, and sustainability, encouraging them to think holistically. The designs showcased a wide range of ideas—from smart surveillance layouts to eco-friendly building materials and space optimization.

By empowering students to tackle real infrastructure issues through design, the competition successfully blended academic skill with civic responsibility. 'Secure the Insecure' was more than a design event—it was a step toward building a safer and smarter campus.





# "FROM MAPS TO MASTERPLANS: NAVIGATING GIS TOOLS"

## Workshop on Geographic Information System (GIS)

Date: August 22, 2024 | Participants: 47

The ASCE CET Student Chapter successfully conducted an insightful Workshop on Geographic Information System (GIS) on August 22, 2024, offering students a practical introduction to one of the most powerful tools in spatial analysis and infrastructure planning.

The session was led by Ms. Neethu Suresh, an M.Tech scholar from the Geoinformatics Department, CET, who brought academic depth and hands-on experience to the workshop. Her engaging presentation helped demystify the world of GIS and remote sensing tools, highlighting their critical applications in urban planning, environmental monitoring, disaster management, and civil engineering projects.

With 47 enthusiastic participants, the workshop covered essential concepts such as map layering, spatial data analysis, and the integration of GIS into real-world engineering solutions. Attendees gained valuable insights into how modern technology is revolutionizing traditional methods of site planning, resource mapping, and infrastructure development.



This workshop served as a stepping stone for students eager to explore the intersection of technology and terrain, empowering them with knowledge that is increasingly vital in today's data-driven civil engineering industry.



# "BEYOND THE CLASSROOM: NAVIGATING GATE & GOVERNMENT EXAMS"

## Future Unlocked: Cracking GATE 2025 & Public Exams

In a valuable step toward career preparation, the ASCE CET Student Chapter, in collaboration with Entri App, organized an online webinar on GATE 2025 and upcoming public service exams on August 29, 2024.

The session was led by Ms. Ammu S, the Academic Innovative Head at Entri App, who brought her expertise and clarity to demystify competitive exam strategies for aspiring civil engineers. The webinar was attended by 54 students, all eager to understand the pathways beyond college and the nuances of major exams like GATE, UPSC, SSC, and state-level engineering services.

Topics included the exam pattern, smart preparation techniques, syllabus analysis, time management tips, and career opportunities after clearing these exams. Students also gained insights into balancing academic workload with competitive exam preparation

With focused discussions and practical advice, the session empowered participants to plan ahead with clarity and confidence. The collaboration marked another successful initiative in the ASCE CET Student Chapter's commitment to holistic academic and professional development.

DEPARTMENT OF CIVIL ENGINEERING

ASCE

WEBINAR ON

**GATE 2025 AND UPCOMING PUBLIC EXAMS FOR CIVIL ENGINEERING STUDENTS**

In Association with

**E**  
ENTRI

**Ammu S**  
Academic Innovation Head  
(Civil courses)

**7 pm** | **8 pm** | **Thursday, 29 August 2024**

**OPEN TO ALL** | **Limited Seats Only!**

COLLEGE OF ENGINEERING TRIVANDRUM



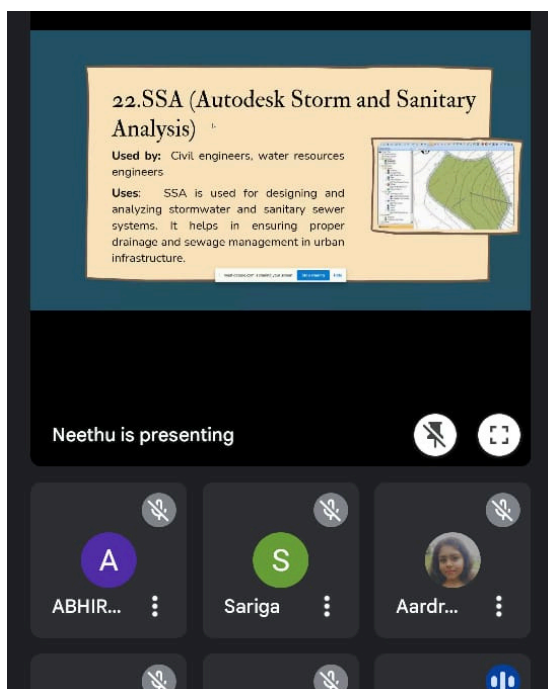
# "DESIGNING THE DIGITAL WAY: CIVIL SOFTWARE ESSENTIALS UNVEILED"

## Click. Design. Build: Introduction to Civil Engineering Softwares

On October 5, 2024, the ASCE CET Student Chapter hosted an informative online session titled "Introduction to Civil Engineering Softwares," aiming to familiarize students with the essential digital tools shaping the construction and infrastructure industries.

The session was expertly handled by Ms. Neethu Suresh, an M.Tech scholar from the Geoinformatics Department, CET, who provided a beginner-friendly yet insightful overview of widely used engineering software. With an impressive turnout of 72 participants, the session explored applications such as AutoCAD, STAAD.Pro, QGIS, and Revit, emphasizing their real-world relevance in design, drafting, surveying, and structural analysis.

The session successfully highlighted the growing importance of software proficiency in modern civil engineering, encouraging students to step confidently into the tech-integrated future of the field.



Ms. Neethu shared real-world examples and use cases, helping students understand how mastering software is critical for accuracy, efficiency, and innovation in engineering practice.

The session served as a foundation for students to explore the digital dimension of civil engineering, encouraging them to embrace technology as a core part of their professional journey.

# "LAYING THE FIRST BRICK: WELCOMING FUTURE ENGINEERS TO ASCE"

Date: January 28, 2025 | Mode: Offline |  
Attendees: 100

To welcome the next generation of civil engineers into the ASCE CET family, the First Year Orientation and Membership Drive was held on January 28, 2025, in offline mode. The event served as the perfect gateway for first-year students to discover the vision, opportunities, and dynamic culture of the ASCE CET Student Chapter.

Coordinated by the third-year panel members, the session was both informative and inspiring. With 100 enthusiastic attendees, the orientation highlighted the benefits of ASCE membership, past achievements of the chapter, and exciting opportunities available to student members — from workshops and site visits to competitions and career-building event

Through interactive presentations and peer-led discussions, new students were encouraged to engage with the civil engineering community early in their academic journey. The event successfully sparked curiosity and enthusiasm, laying a strong foundation for active participation in the chapter's upcoming initiatives.





# AUTOCAD WORKSHOP

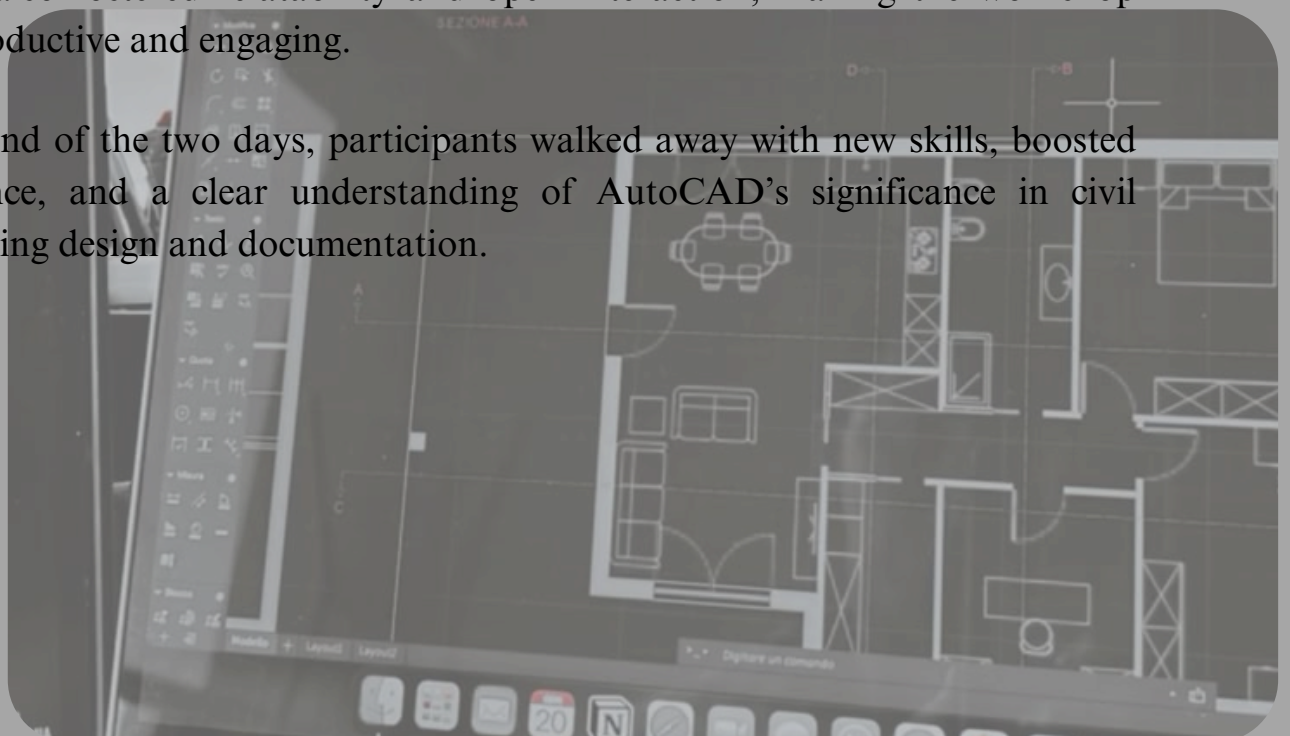
## DRAFTING THE FUTURE: AUTOCAD WORKSHOP FOR ASPIRING DESIGNERS

The ASCE CET Student Chapter organized a two-day AutoCAD Workshop on January 29 and 30, 2025, designed to equip students with fundamental skills in computer-aided drafting — an essential tool for every civil engineer.

Held in offline mode, the session was led by Ms. Arya P B, a talented final-year B.Tech Civil Engineering student at CET, who brought both academic insight and hands-on experience to the workshop. With 45 participants eager to dive into the world of digital drafting, the session covered key AutoCAD concepts such as basic commands, 2D drawing techniques, dimensioning, and layout preparation.

The workshop provided a practical learning environment where students could practice real-time design and understand how digital tools can enhance precision and efficiency in engineering projects. The peer-led nature of the session also fostered relatability and open interaction, making the workshop both productive and engaging.

By the end of the two days, participants walked away with new skills, boosted confidence, and a clear understanding of AutoCAD's significance in civil engineering design and documentation.



# TEACHER'S DAY

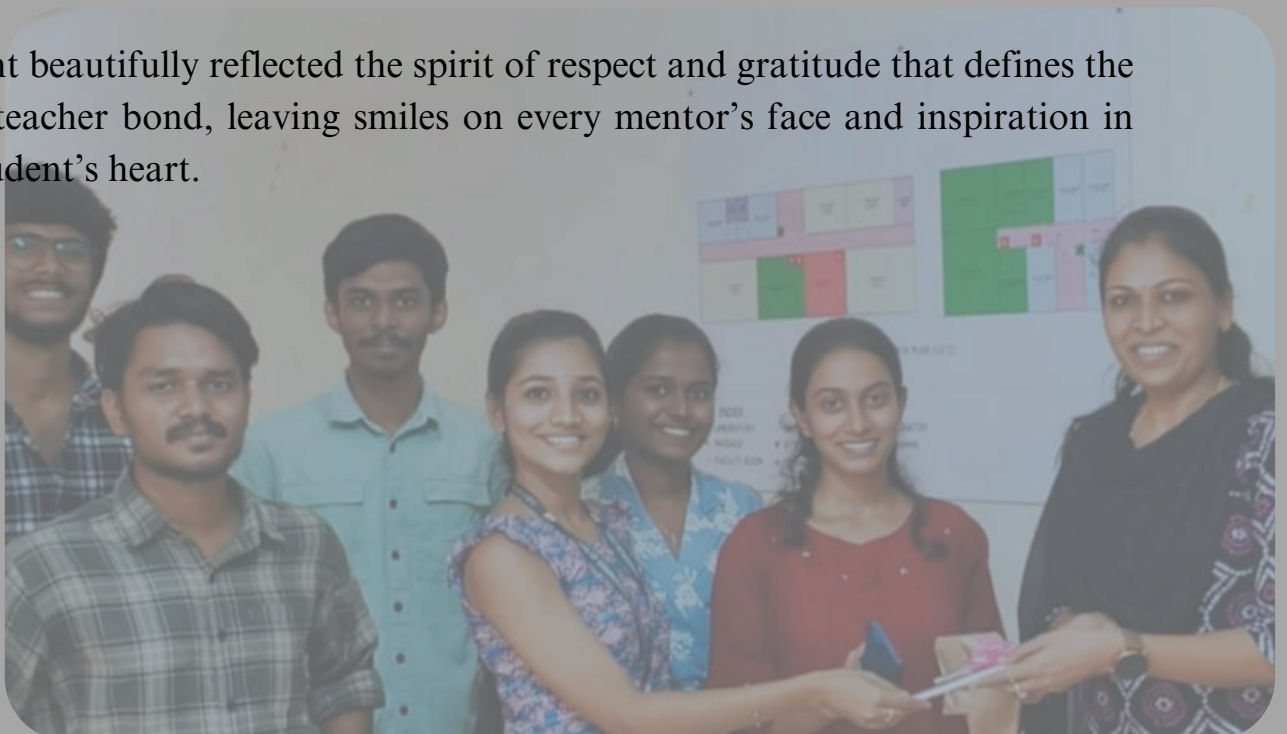
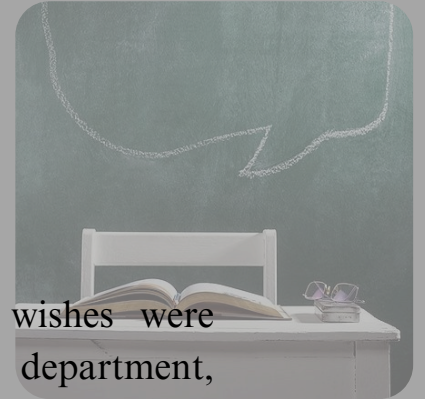
## HONORING THE PILLARS OF KNOWLEDGE: TEACHER'S DAY CELEBRATION

In a heartfelt gesture of gratitude and admiration, the ASCE CET Student Chapter celebrated Teacher's Day by honoring the mentors who continue to shape the future of civil engineering with their wisdom, guidance, and dedication.

As part of the celebration, personalized Teacher's Day wishes were thoughtfully sent to all the faculty members across the department, expressing appreciation for their unwavering support and contribution to both academic and personal growth.

The highlight of the celebration was a special gift presentation to Dr. Anusha S.P., the Faculty Coordinator of the ASCE CET Student Chapter, in recognition of her exceptional mentorship and continuous encouragement. Her tireless efforts and commitment have been instrumental in the club's success and the development of its student members.

The event beautifully reflected the spirit of respect and gratitude that defines the student-teacher bond, leaving smiles on every mentor's face and inspiration in every student's heart.





# ENGINEERING IN ACTION: SITE VISIT TO NEYYAR DAM

**DATE: SEPTEMBER 28, 2024 | LOCATION: NEYYAR DAM, TRIVANDRUM | ATTENDEES: 46**

Bridging classroom concepts with real-world application, the ASCE CET Student Chapter organized an insightful site visit to Neyyar Dam, Trivandrum on September 28, 2024. The visit was attended by 46 students from the 2nd, 3rd, and 4th years of the Civil Engineering department.



The highlight of the day was an engaging and informative session led by Mr. Arun K N, Assistant Engineer, who provided in-depth knowledge about the Neyyar Irrigation Project, the dam's construction, operational mechanics, and its vital role in regional water management.

Students were given the opportunity to perform a visual inspection of the dam structure, gaining first-hand exposure to its components, reservoir system, and engineering techniques involved in its maintenance. The session deepened their understanding of hydraulic structures and dam safety protocols, adding immense value to their academic learning.

This field experience not only enhanced technical knowledge but also underscored the importance of civil engineering in environmental and community development, making it a memorable and educational journey for all participants.





# "A YEAR IN REVIEW: BUILDING BEYOND BOUNDARIES"

## OVERCOMING ROADBLOCKS: CHALLENGES OF THE YEAR

While the ASCE CET Student Chapter had a vibrant and impactful year, it was not without its set of challenges. One of the most significant hurdles faced was the staggered academic calendar and exam schedules across junior and senior batches. This often resulted in reduced availability and limited participation during events, affecting overall engagement.

Another major concern was the lack of awareness among students

regarding the full range of benefits offered by ASCE membership. Despite efforts to communicate these advantages, bridging the information gap remains an area for growth.

Additionally, maintaining consistent participation and enthusiasm throughout the year proved to be a challenge. As academic pressures fluctuated, sustaining member involvement in every activity required continuous innovation and outreach.

These challenges, however, have provided the chapter with valuable insights and direction, helping us lay a stronger foundation for improved coordination, awareness, and student engagement in the upcoming sessions.





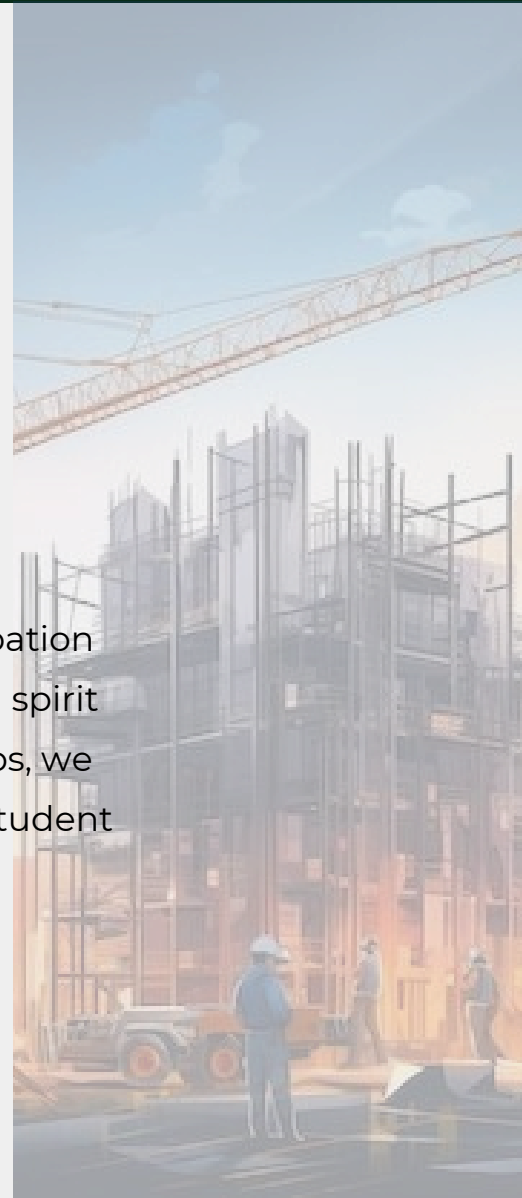
# "A YEAR IN REVIEW: BUILDING BEYOND BOUNDARIES"

## FORGING AHEAD: RESOLUTIONS FOR A STRONGER TOMORROW

In light of the challenges faced this year, the ASCE CET Student Chapter is committed to turning obstacles into opportunities. One of our key resolutions is to strengthen the connection between students and the chapter by enhancing our public image. Through increased visibility and better communication, we aim to ensure students clearly understand the vast opportunities ASCE offers—from technical growth to global networking.

We also plan to collaborate more closely with industry professionals and leverage platforms like LinkedIn to promote events, share achievements, and open doors to internships, guidance, and mentorship. By doing so, we seek to bridge the gap between academic learning and industry expectations.

Lastly, we are determined to encourage active participation in ASCE activities beyond the local chapter, fostering a spirit of global engagement and leadership. With these steps, we aim to build a more involved, informed, and inspired student community in the coming year.





# "A YEAR IN REVIEW: BUILDING BEYOND BOUNDARIES"

## LOOKING AHEAD: PLANS SET IN CONCRETE

With a strong foundation laid, the ASCE CET Student Chapter is all set to scale new heights in the coming academic year. Our vision is to foster deeper learning, broader exposure, and meaningful impact through a series of planned initiatives.

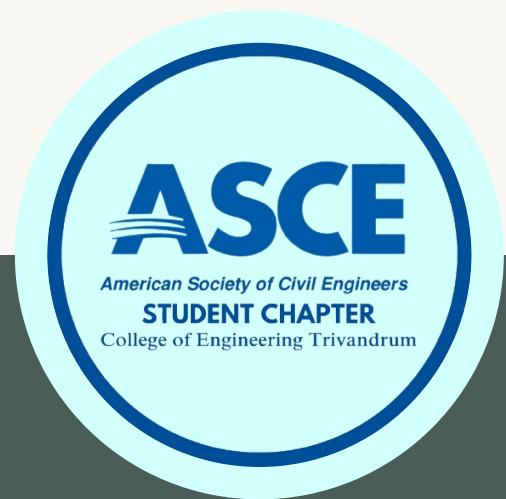
As the ASCE CET Student Chapter continues to grow, our vision is firmly rooted in enhancing the academic, professional, and social impact of civil engineering among students. With an eye on the future, we are excited to unveil a set of dynamic initiatives aimed at broadening horizons, building industry connections, and encouraging social responsibility.

The ASCE CET Student Chapter is committed to not only enriching academic experiences but also nurturing socially conscious and industry-ready civil engineers.





# THANK YOU!



As we wrap up this edition of Civil Vision, we extend our sincere thanks to everyone who contributed to its success — from our dedicated editorial team and enthusiastic student writers to the mentors who guided us and the readers who continue to support our journey.

This magazine is more than just pages — it is a reflection of the passion, innovation, and unity that define the ASCE CET student chapter. We hope it inspires you, informs you, and reminds you of the incredible potential within the field of civil engineering.

Thank you for being a part of this vision. Until next time — keep building, keep leading.

— Team Civil Vision