2025

VIT®
Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act, 1956)

SCHOOL OF CIVIL ENGINEERING

THE CIVITIMES

The Annual Magazine of School of Civil Engineering

DESIGN. BUILD. ACHIEVE.

VISION

To excel in Civil Engineering education and research with a global perspective and commitment to sustainability.

MISSION

- **M1. Academic Excellence : Impart high-quality Civil Engineering education through innovative teaching methodologies and modern laboratory facilities**
- **M2. Research : Promote research, consultancy, and innovation addressing real-world civil engineering challenges with emphasis on sustainable infrastructure and societal needs.**
- **M3. Global Perspective & Industry Engagement : Prepare globally competent civil engineers through industry interaction and collaboration with national and international institutions**
- **M4. Ethics, Sustainability & Lifelong Learning : Produce socially responsible Civil Engineers with strong ethical values and leadership skills, dedicated to sustainable development and lifelong learning.**

PROGRAM EDUCATIONAL OBJECTIVES

- **PEO 1: Graduates will be successful Civil Engineering professionals/entrepreneur.**
- **PEO 2: Graduates will pursue higher studies and research for professional development.**
- **PEO 3: Graduates will demonstrate civic responsibility in addressing societal and environmental challenges**

From the Dean's Desk

I am delighted to note that the Civil Engineering Department is bringing out the first issue of its magazine, *THE CIVITIMES.* This initiative marks a significant milestone and reflects the enthusiasm and dedication of both students and faculty.

A key aspect of this initiative is that it provides a platform to showcase the technical knowledge, analytical skills, and creativity of our budding engineers. Such endeavours play a vital role in encouraging innovation and intellectual growth.

I sincerely appreciate the coordination, commitment, and hard work of the entire team involved in bringing out this inaugural issue. Their efforts are truly commendable.

I encourage students to continue contributing with great enthusiasm, presenting bright concepts and innovative ideas in future editions.

I extend my best wishes to all involved and hope they achieve continued success in all their future endeavours.

With warm regards,

Dr. Saravana Kumar M P

Dean

School of Civil Engineering

VIT, Vellore

From the Assoc. Dean's Desk

I am truly pleased to witness the release of the first edition of THE CIVITIMES, the official magazine of the Civil Engineering Department. This initiative reflects the growing vibrancy of our academic community and the willingness of our students to go beyond textbooks and laboratories.

A departmental magazine serves as a creative and intellectual outlet where technical knowledge meets expression. It allows students to share their insights on contemporary civil engineering challenges, present innovative solutions, and celebrate the achievements of their peers. Such platforms are essential in shaping well-rounded engineers who can communicate effectively and think critically.

I commend the editorial team and all contributors for their sincere efforts, attention to detail, and collaborative spirit in bringing this issue to life. Their dedication has turned an idea into a meaningful reality.

I look forward to seeing future editions grow in depth, diversity, and readership. I encourage every student to take pride in this magazine and contribute their unique perspectives in the times to come.

My warmest wishes to the entire team. May THE CIVITIMES continue to inspire and evolve with every issue.

With warm regards,
Dr. Sofi A
Associate Dean
School of Civil Engineering
VIT , Vellore

From the HOD's Desk

It is a matter of great pride to see the students of the School of Civil Engineering present this edition of their magazine, *THE CIVITIMES.* This publication is a testament to the dynamic academic culture of our department and the proactive spirit of our students in going beyond the classroom.

A student magazine serves as an important medium to express ideas, share knowledge, and showcase innovations in the civil engineering. The magazine reflects not only technical knowledge & engineering understanding but also creativity, critical thinking, and awareness of real-world challenges. Such initiatives significantly contribute to the holistic development of our students as future professionals.

I would like to congratulate the editorial team and all contributors for their sincere efforts and dedication in bringing out this issue. Their commitment and teamwork are truly appreciated.

I encourage students to actively participate in such initiatives and continue to explore new ideas that contribute to sustainable and resilient infrastructure. I extend my heartfelt wishes for the continued success of this magazine and all future endeavours of our students.

With warm regards,

Dr. Dillip Kumar Barik

Head of Department (B.Tech)

School of Civil Engineering

VIT , Vellore

From the HOD's Desk

The release of this edition of *THE CIVITIMES* marks a significant milestone in showcasing the academic and research excellence of our students.
It reflects the intellectual vitality and research-driven culture fostered within the School of Civil Engineering, particularly in our postgraduate programs. For M.Tech students engaged in specialized domains, such a platform serves as more than a medium of expression—it bridges theoretical knowledge with practical innovation.

This edition highlights not only technical competence but also analytical thinking, design creativity, and a nuanced understanding of real-world infrastructural challenges. It is encouraging to see students actively engaging with complex problems and presenting thoughtful, innovative solutions. Such initiatives play a crucial role in shaping well-rounded professionals capable of contributing to sustainable and resilient development.

I extend my sincere congratulations to the editorial team and all contributors for their dedication, teamwork, and scholarly efforts in bringing out this issue. Their commitment reflects the spirit of excellence we strive to instill.
I encourage all students to actively participate in such initiatives and continue exploring emerging areas in civil engineering.

My best wishes to the team for their continued success and future endeavors.

With warm regards,
Dr. Bala Murugan S
Head of Dapartment (M.Tech)
School of Civil Engineering
VIT, Vellore

The Editorial Panel

School of Civil Engineering

The School of Civil Engineering at Vellore Institute of Technology is a distinguished center for academic excellence, innovation, and research. The department offers a comprehensive curriculum spanning key domains such as structural, geotechnical, transportation, environmental, and water resources engineering, providing students with a strong technical foundation.

SCE fosters a vibrant culture of innovation and extracurricular achievement. Team Eklavya, the institute's flagship civil engineering team, has earned national and international recognition through its outstanding performance in concrete canoe competitions, including championship titles and global participation. Complementing this spirit of excellence, the institute's professional student chapters such as ASCE, IGS, ICI, and ISET provide platforms for technical enrichment, leadership development, and global engagement.

Through this integrated approach of academics, research, and student-led initiatives, the School of Civil Engineering continues to nurture skilled, forward-thinking engineers equipped to address the evolving needs of the built environment.

Student Achievements

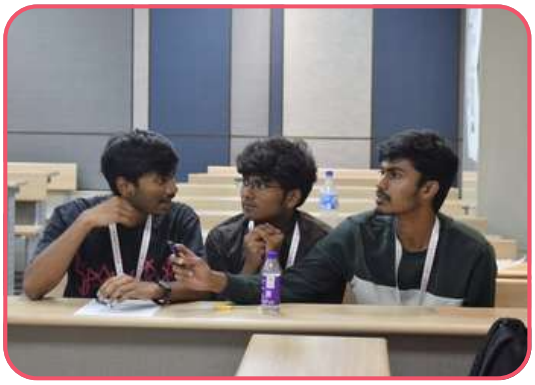
Technical Poster Making Competition – ASCE India Student Symposium 2025

The team comprising Niranjana S (22BCL0054), Sreya Prasobh (22BCL0079), Lakshmi Nair (22BCL0110), Athidharani K V (23BCL0011), Vignesh Pranav V.S. (23BCL0012), and Lakshmi S (23BCL0089) secured the Runner-Up position in the Technical Poster Making Competition at the ASCE India Student Symposium 2025, hosted by Mukesh Patel School of Technology Management & Engineering.

Sky Is Pink - Civil Engineering Challenge – ASCE India Student Symposium 2025

The team comprising Annie Elsa Sujith (22BCL0006), Ratna Pani Bajracharya (22BCL0142), Abhijith Maneesh (23BCL0036), Mishal Aslam (23BCL0041), and Tourangbam Achamba (23BCL0042) secured the Runner-Up position in the “Sky Is Pink” Civil Engineering Challenge at the ASCE India Student Symposium 2025, hosted by Mukesh Patel School of Technology Management & Engineering.

Inquisitive Civil Engineering Quiz – ASCE India Student Symposium 2025



The team secured 3rd place in the “Inquisitive” Civil Engineering Quiz at the ASCE India Student Symposium 2025, hosted by Mukesh Patel School of Technology Management & Engineering.

Global Hyperloop Competition

Anshuman Lenka (23BCL0059), Piyush Raj (23BCL0076), Lokesh Rastogi (23BCL0072), Ashish Kumar (23BCL0019), and Swetha Mohandas (23BCL0091), as part of Team Levitate from VIT Vellore, participated in the Global Hyperloop Competition hosted by the IIT Madras, earning multiple accolades including the Best DesignX Blueprint Award, Best Subsystem Awards (Electrical and Traction), Special Mention in Embedded Systems, Innoquest First runner-up in technical research, and the Best Documentation Award.

Student Achievements

Formula Bharat 2025

Mahammad Toufik Shaikh (23BCL0086), representing Pravega Racing, competed in Formula Bharat 2025 held at Kari Motor Speedway from 19–28 January 2025, the team secured 3rd Position in the Combustion Category along with 1st Place in Statics, Engineering Design Report, and Cost and Manufacturing Report.

Jagriti 2025 – Impactify

Tanishq Daga (24BCL0042) participated and emerged as a National Finalist in the Impactify event at Jagriti 2025, organized by IIT BHU, held from 17th to 19th 2025.

International Conference on Sustainable Communication Networks and Application (ICSCN 2025)

Pranav Kumar Manchi participated in the International Conference on Sustainable Communication Networks and Application (ICSCN 2025), held from 15–17 October 2025 at Theni. The conference served as a global platform for researchers, academicians, and industry professionals to present and discuss advancements in sustainable communication networks, including areas such as green computing, network architectures, and emerging communication technologies.

Aakaar 2025 – OpenRoads Designer Competition

G P Nishok Kumaar (23BCL0026), Varoon R (23BCL0013), and Athidharani K V (23BCL0011) secured First Place in the OpenRoads Designer Competition at Aakaar 2025, organized by the IIT Bombay in collaboration with Bentley Systems.

CULTURAL

Saarang, IIT Madras

N V R Murty (22BCL0063) participated and secured second in the Street Play event at Saarang, organized by the Indian Institute of Technology Madras.

Model United Nations

Shaurya Veer Sharma (23BCL0074) actively participated in multiple Model United Nations conferences, including VITMUN 2025, IIMUN Trichy, IIMUN Madurai, VNEXUS Model UN, Promethean MUN 2025, and the International Conference on Applied Mathematics – Frontiers in Industrial and Applied Mathematics

TAL SE TAL MILA (RAGAM) , NIT CALICUT

Sypha Deka Chetia (24BCL0022) participated in Tal Se Tal Mila, a semi-classical dance competition at Ragam, NIT Calicut. She presented a Sattriya recital based on Swaghatam Krishna and secured 2nd place, becoming the only solo performer to finish among the top three and earning appreciation for her expressive performance.

SRMR MUN

Fathima Nairah (23BCL0092) participated in SRMR MUN held at SRM Institute of Science and Technology, Ramapuram Campus, Chennai, from 4–6 April 2025 and received the Best Delegation Award.

Patents

- J. Jayaprakash, S. Arindom, B. K. Siddharth, and R. D. Nayak, “3D printed concrete beams with laser-cut truss reinforcement,” Indian patent application no. 202541122219, filed Dec. 4, 2025.

- M. Priyadarshini, A. Dutta, S. Tiwari, and D. Nayak, “Aluminium-based metal-organic framework filter for methylene blue removal,” Indian patent application no. 202541122046, filed Dec. 4, 2025.

- A. Rahim A and S. Karthik, “Automated crop stress detection using RGB imagery and machine learning,” Indian patent application no. 202541122181, filed Dec. 4, 2025.

- T. S. Viswanathan, B. Sanjay, S. N. Ali, and A. Majeed, “Method for producing pervious concrete using thermo-mechanically treated recycled coarse aggregate and ground granulated blast furnace slag,” Indian patent application no. 202541122111, filed Dec. 4, 2025.

- A. Rahim A, S. Soni, P. Singh, and S. Sethi, “Rubberized geopolymer concrete with enhanced mechanical properties,” Indian patent application no. 202541122075, filed Dec. 4, 2025.

- A. Rahim A and S. Karthik, “Steel beams with corrugated and honeycomb web patterns,” Indian patent application no. 202541122083, filed Dec. 4, 2025.

- M. Priyadarshini, A. Gangta, B. Raj, and R. J. Marbanaing, “Waste-derived Fe_3O_4/biochar composite for photocatalytic dye degradation,” Indian patent application no. 202541122053, filed Dec. 4, 2025.

- T. S. Priya, S. H. Varshan, M. C. N. Kartthick, R. Ezhil, and V. Suhas, “ZnO-Ni nanocomposite coated steel rebars for concrete applications,” Indian patent application no. 202541122025, filed Dec. 4, 2025.

- A. S. Alexander, R. Singhal, and H. Sharma, “Composite sheet with segmented PCM chambers,” Indian patent granted Apr. 27, 2025.

- S. V. Kumar, A. Verma, A. L. Synrem, and K. Shrestha, “Deep learning system for heterogeneous traffic monitoring,” Indian patent application no. 202541123050, filed Dec. 5, 2025.

- D. K. Barik, R. Singhal, and H. Sharma, “Portable decentralized filter for greywater,” Indian patent granted Apr. 27, 2025.

- D. K. Barik, N. Behera, and R. Singhal, “Greywater filter mechanism,” Indian patent granted Mar. 1, 2025.

- D. K. Barik, N. Behera, and R. Singhal, “Water storage tank cleaning mechanism,” Indian patent granted Oct. 29, 2025

Journals

- C. Vadivelu, V. Prabaharan, and P. K. Akhas, “Flexural behavior of perforated rectangular hollow section cold-formed steel beams: An experimental and numerical study,” Results in Engineering, vol. 26, art. no. 104821, 2025.

- P. P. H. Nandu, B. E. Madhu, K. S. K. K. Reddy, and B. Adinarayana, “AI-driven development and utilization of 2024 Noto earthquake seismic data for prediction of earthquake intensity measures for Japan using deep machine learning models,” Innovative Infrastructure Solutions, vol. 10, no. 4, art. no. 153, 2025.

- D. Parmar, N. Ponnappan, A. Thampi, and S. Prasanth, “Seismic performance of various structural configurations for RC building on sloped terrain considering soil-foundation-structure approach,” Frontiers in Built Environment, vol. 11, 2025.

- M. Sankaranarayanan, P. Jagan, J. A. Visuvasam, and S. S. Chandrasekaran, “Numerical assessment of the influence of stone columns on liquefaction-induced seismic effects in RC structures,” Geomatics, Natural Hazards and Risk, vol. 16, no. 1, 2025.

- A. Ray et al., “Stability analysis and prediction of Bimslope failures using numerical modelling and hybrid meta-heuristic models,” Natural Hazards, 2025.

- R. Ricky, S. Harini, and S. Shanthakumar, "Removal of N,N-diethyl-m-toluamide (DEET) using Chlorella vulgaris: A study on its tolerance limits and its effects on biochemical composition," Environmental Sciences Europe, vol. 37, no. 1, art. no. 36, 2025.

- B. Mishra et al., "BIM-based approach for analyzing carbon emissions of residential buildings in India," Innovative Infrastructure Solutions, vol. 10, no. 4, art. no. 153, 2025.

- G. Gowtham et al., "Sailing towards sustainability: Waste ship oil sludge as diesel alternative," Results in Engineering, vol. 28, art. no. 107960, 2025.

- V. R. Lakshmanan et al., "Heavy metals contamination and vulnerability in Vellore District, Tamil Nadu, India," Environmental Science and Engineering, 2025.

- A. Anil et al., "Prediction of behaviour of adjacent building due to blast induced demolition of a high-rise structure in Delhi, India," Lecture Notes in Civil Engineering, 2025.

- S. Chakravarthy, Business Strategy and the Environment, vol. 34, no. 3, pp. 2897–2916, 2025.

- A. Joseph, S. B. Murugan, and A. S. Anirudhan, "Investigating the impact of unmodified sugarcane bagasse ash and alccofine on cement paste: Combined effects and ideal chemical admixture proportions," Springer Proceedings, 2025.

- G. A. Sankar, A. Pradeep, H. Sajeevan, B. Biju, and S. A, "Performance evaluation of mortars incorporating recycled concrete aggregates for sustainable construction," in Proc. 5th Indian Int. Conf. on Industrial Engineering and Operations Management (IEOM), IEOM Society International, USA, Nov. 6, 2025, p. 1065.

- M. R. Binu, K. Anjana, and T. Shanmuga Priya, "Influence of carbon nanotube in GGBS-based geopolymer mortar," in Lecture Notes in Civil Engineering, vol. ICITES-2025, Vol. 2: Smart, Digital and Sustainable Construction, Springer, 2025, pp. 273–280.

Industry – Academia Partnership Convention (IAPC) – Fifth Edition

The Fifth Edition of the Industry – Academia Partnership Convention (IAPC), held on April 03–04, 2025 at VIT Vellore, brought together industry experts and students to strengthen industry–academia collaboration. The event featured plenary sessions and panel discussions with Mr. Lokeshwara Babu, Mr. V. Radhakrishnan, and Mr. Ranji Varghese, who shared insights on evolving industry demands, continuous upskilling, interview preparedness, and the role of civil engineering in sustainable development. The discussions emphasized practical experience, interdisciplinary knowledge, and long-term career growth, highlighting the importance of adaptability in the modern engineering landscape.

Hackathon – Landscape Engineering (Sponsored by Tanseeq Investment)

Kanaparthi Yaswanth Pavan, Sharvesh J and Hevindh Surya R secured 1st place, followed by Yati Ajit Singh and Ria Singhal with 2nd place, and Ratna Pani Bajracharya, Amal Pradeep and G. Ajay Shankar with 3rd place in the Landscape Engineering challenge. The hackathon focused on sustainable solutions for arid regions, including water management, microclimate enhancement strategies, and green infrastructure development.

Hackathon – Resilient Infrastructure (Sponsored by Keshthana Infrastructure)

Shreya A Raghavan, Gottapu Murali Sai, and Madiraju Naresh secured 1st place, followed by Bonta Sanjay, Kondumuri Venkat Rohit, and Kandibanda Rathan Sai with 2nd place, and Suborna Goswami, Somani Nikunj Sachin, and Kanishk V Jain with 3rd place in the Resilient Infrastructure challenge. The competition focused on developing innovative solutions for structural monitoring, predictive maintenance. It also emphasized infrastructure resilience using advanced analytical and computational approaches.

WATER CONSERVATION WEEK - 2025

As part of Water Conservation Week 2025, the School of Civil Engineering, through its active student chapters ICI, ASCE, ISET, and IGS organized a series of engaging and thought-provoking events for students. These included Fix the Flow, Dammed Decisions, QuakeResilient: Innovate for Water Security, and Reel Splash, each designed to address different dimensions of water conservation and management. The events psolutions andrms for students to identify and mitigate real-time water wastage, develop innovative and sustainable solutions, and explore challenges related to infrastructure resilience and water security.

Through a blend of field-based activities, collaborative discussions, ideation sessions, and creative digital storytelling, all these initiatives successfully fostered awareness on water conservation while enhancing critical thinking, problem-solving, and teamwork skills. Collectively, the events reflected the commitment of the student chapters in promoting sustainability and encouraging students to contribute meaningfully towards responsible water resource management practices. Along with all the other events for students as part of Water Conservation Week, the School of Civil Engineering also organized a drawing competition for the children of faculty members, creating a meaningful platform to inspire awareness about water sustainability among young minds. The event witnessed enthusiastic participation from children across various age groups ranging from 4 to 16 years.

The competition aimed to encourage creativity while instilling the importance of conserving water through artistic expression. The young participants showcased remarkable imagination, depicting themes such as saving water, rainwater harvesting, and protecting natural resources. Their drawings reflected not only creativity but also a strong understanding of environmental responsibility at a very early age.

Building Beyond Earth

The next chapter of civil engineering is being written off the planet

On 1 April 2026, Artemis II sent four astronauts farther from Earth than any human has travelled since Apollo 17 over fifty years ago. Unlike Apollo, the goal is no longer a brief visit, but permanent infrastructure—habitats, laboratories, and power systems. While discussions focus on futuristic space advancements, civil engineering remains largely absent from the conversation.

The lunar surface undergoes temperature swings of nearly 300°C between day and the two-week-long night—far beyond terrestrial design standards. Structures experience full thermal cycles, leading to cumulative fatigue damage rather than averaging effects. Additionally, radiation exposure requires about 2.5 metres of regolith shielding before habitation, making protection a primary construction constraint that influences all design and scheduling decisions.

Transporting materials from Earth is prohibitively expensive, making in-situ resources essential. Lunar regolith can be sintered at 1,000–1,200°C into a ceramic-like material with compressive strengths of 15–60 MPa.

However, its long-term thermal fatigue behaviour remains largely unknown. Significant variability in strength could increase safety factors, raising material demand and impacting mission feasibility. Construction on the Moon depends on limited solar energy, constrained material supply, and robotic operations with no margin for inefficiency. This turns scheduling into a constrained optimisation problem. Studies suggest optimised sequences can reduce robotic hours by 23%, a critical margin at lunar costs. On Mars, uncertainty becomes even greater, as dust storms can reduce solar energy by 99% for weeks, making stochastic scheduling essential to avoid incomplete critical structures.

Artemis II marks the transition from planning to execution, with lunar habitation no longer a distant goal. Soon, structures capable of supporting human life must be built under extreme constraints. Civil engineering already offers the tools—structural analysis, geotechnics, construction management, and optimisation. The challenge is not capability, but attention. More civil engineers must engage, because the need is no longer theoretical.

~ KAMYA BHARTARI
24BCL0001

From Coal Tracks to Hyperloop: The Civil Engineering Journey of Railways

The evolution of railway systems has continuously reshaped civil engineering, demanding ever greater innovation in track design, earthworks, and load management. Railways began modestly in mining regions with wooden or iron rails and horse-drawn wagons, requiring only basic track laying and stability. Yet even this early phase introduced fundamental civil engineering concepts such as gradients, alignment, and load distribution. The steam engine brought the first major transformation, forcing civil engineers to construct durable tracks for heavier loads, build bridges and tunnels across difficult terrains, and develop embankments, cuttings, and drainage systems. These large-scale infrastructure practices foundational to civil engineering even today marked the birth of systematic railway planning.

The transition to diesel and electric trains in the twentieth century demanded stronger track materials, improved ballast systems, and more precise geometric alignment. Urban rail networks introduced underground tunneling, leading to civil engineering innovations like shield tunneling and cut-and-cover methods.

The emergence of high-speed rail and magnetic levitation (maglev) systems then introduced a paradigm shift: ultra-precise track geometry, elevated guideways with extremely tight tolerances, vibration control, and seismic resilience. Unlike conventional railways, maglev eliminates wheel-rail contact, requiring civil engineers to address aerodynamic considerations and structural dynamics that were previously irrelevant to track design.

Today, hyperloop represents the next frontier, presenting entirely new civil engineering challenges. Near-vacuum tube travel demands vacuum-sealed structures, management of thermal expansion under low-pressure conditions, and integration of complex safety systems all while maintaining structural integrity across long spans. Unlike traditional railways, hyperloop requires civil engineers to work alongside mechanical and aerospace disciplines, blending expertise in materials, tolerances, and dynamics. From simple coal tracks to futuristic hyperloop systems, each leap in railway technology has driven a corresponding leap in civil engineering capabilities, proving that the field remains at the very core of transportation progress.

~ PIYUSH RAJ
23BCL0076

American Society of Civil Engineers (ASCE)

The American Society of Civil Engineers (ASCE), VIT Student Chapter is a dynamic student-led organization that promotes excellence in civil engineering. Through technical events, workshops, and site visits, it enhances practical knowledge, industry exposure, and fosters leadership, collaboration, and professional growth.

DESIGNFORGE 2.0

DesignForge 2.0 was a two-day flagship event focused on Building Information Modeling (BIM) and its applications in modern civil engineering. Participants attended a hands-on workshop to learn BIM fundamentals before applying their knowledge in a design challenge that emphasized innovation, collaboration, and efficient project planning. The event enhanced participants' technical skills, problem-solving abilities, and understanding of digital construction workflows, highlighting the growing role of BIM in developing smarter and more sustainable infrastructure.

American Society of Civil Engineers (ASCE)

GREENPRINT: DREAM DRAFT DO

Greenprint: Dream Draft Do, conducted under Yantra'25, challenged participants to design sustainable building layouts using AutoCAD, Revit, and Autodesk Forma with AI-assisted design concepts. Entries were evaluated on architectural creativity, compliance with national standards, and environmental sustainability. The competition encouraged participants to integrate engineering principles with modern computational tools, fostering innovation in sustainable urban planning. The event promoted green construction practices and inspired students to contribute towards the development of sustainable and resilient communities.

ECOVISION

Ecovision, conducted as part of Quality Week 2025, focused on the simulation and optimization of hybrid renewable energy systems using Autodesk Forma. Participants modeled solar and wind energy resources while analyzing terrain, shadow effects, and wind flow to develop sustainable engineering solutions. The event enhanced understanding of renewable energy integration, environmental analysis, and sustainable design practices. It encouraged innovation in green energy planning and promoted awareness of clean energy and climate-resilient engineering.

ASCE STUDENT CHAPTER
Vellore Institute of Technology

American Society of Civil Engineers (ASCE)

SHADOWS OF SYNDICATE

Shadows of the Syndicate was an interactive team-based event that combined technical reasoning, strategic gameplay, and psychological challenges. Participants navigated bidding rounds, clue-solving tasks, and imposter-style activities that tested analytical thinking, decision-making, teamwork, and adaptability under pressure. The event encouraged effective communication, critical problem-solving, and strategic planning in an engaging and competitive environment. Its unique blend of technical knowledge and suspense provided participants with a memorable and enriching learning experience.

BRIDGE IT

Bridge It was a two-day workshop and competition that provided participants with practical exposure to bridge engineering. The event began with a technical workshop on digital bridge design using STAAD.Pro, covering structural behavior and design principles. Participants then applied their knowledge by designing, constructing, and testing bridge models, which were evaluated based on strength, efficiency, resource optimization, and creativity. The event promoted teamwork, innovation, and problem-solving while enhancing participants' understanding of structural design through experiential learning.

HYDRO - WHIZ :

Hydro-Whiz was an online hydrology quiz that tested participants on topics such as precipitation, runoff, hydrograph analysis, and open-channel flow. The event strengthened fundamental knowledge of water resources engineering through an engaging competitive format, encouraging critical thinking and technical learning while promoting awareness of sustainable water management and environmental engineering concepts.

ECOQUEST :

EcoQuest was an interactive online quiz conducted on Instagram to promote environmental awareness. Covering topics such as biodiversity, climate change, and sustainable consumption, the event engaged participants through polls and story-based interactions. It encouraged learning in a fun and accessible format while fostering awareness of environmental conservation, responsible resource use, and sustainable practices among students.

BEYOND THE BLUEPRINT :

Beyond the Blueprint was an online quiz that tested participants' knowledge of Building Information Modelling (BIM), covering topics such as Revit, clash detection, digital twins, and project coordination. The event enhanced participants' understanding of modern digital construction practices and integrated workflows while promoting technical learning, innovation, and the importance of digital technologies in contemporary civil engineering.

THE CLIMATE CODE :

The Climate Code was a two-day online quiz conducted on Instagram to raise awareness about climate change and sustainability. Covering topics such as greenhouse gases, climate adaptation, and environmental policies, the event encouraged participants to think critically about global challenges and the role of engineers in developing sustainable solutions. It promoted environmental responsibility through an engaging and accessible learning experience.

DAMMED DECISIONS :

Dammed Decisions was a policy simulation event that challenged participants to develop sustainable engineering and policy solutions for a transboundary water infrastructure scenario. Teams addressed water supply, structural innovation, environmental sustainability, and international cooperation through integrated proposals. The event promoted critical thinking, teamwork, and decision-making while highlighting the role of civil engineers in balancing technical, environmental, and policy considerations for resilient water infrastructure.

SPARK :

SPARK: Digitally Twinnin' was the inaugural lecture in the SPARK series, introducing participants to the applications of Digital Twin Technology in civil engineering. The session explored how virtual replicas of physical assets support real-time monitoring, predictive analysis, and informed decision-making throughout a structure's lifecycle. It enhanced participants' understanding of emerging digital technologies and their role in improving efficiency, sustainability, and innovation in infrastructure development.

IS 456 DECODED :

IS 456 Decoded was an interactive quiz that tested participants' knowledge of IS 456:2000 – Code of Practice for Plain and Reinforced Concrete. Covering design principles, material specifications, durability, and detailing provisions, the event strengthened participants' understanding of essential design codes through an engaging competitive format. It enhanced technical knowledge, problem-solving skills, and preparedness for academics, professional practice, and competitive examinations.

BRIDGE THE GAP :

An ice-breaking session was organized for the student members to foster interaction, teamwork, and a sense of belonging within the chapter. Through a series of fun and engaging games, participants connected with one another in an enjoyable environment while building stronger relationships. The session also included discussions on the chapter's vision, objectives, and goals for the year, motivating members to actively contribute and work collaboratively towards achieving shared milestones.

Indian Geotechnical Society (IGS)

The Indian Geotechnical Society (IGS), VIT Student Chapter fosters interest in geotechnical engineering by promoting learning in soil mechanics and foundation engineering. Through expert sessions and practical exposure, it helps students develop technical skills and engage with real-world challenges.

CIVIL HUNT 2.0

Civil Hunt 2.0 was a civil engineering-themed treasure hunt that combined technical knowledge with problem-solving and teamwork. Participants progressed through multiple checkpoints by solving engineering-based puzzles, decoding clues, and completing interactive challenges related to various civil engineering disciplines. The event encouraged analytical thinking, effective communication, and time management in a competitive yet engaging environment. By blending learning with adventure, Civil Hunt 2.0 provided participants with an enjoyable experience while strengthening their technical aptitude and collaborative skills.

LOAD BEARING BRAINS

Load Bearing Brains was a multi-round technical competition that tested participants' knowledge across various civil engineering disciplines. Teams competed in an elimination format, tackling rapid-fire questions and problem-solving challenges that assessed their technical understanding, analytical thinking, and decision-making skills. As the rounds progressed, the difficulty increased, creating an exciting and competitive environment. The event successfully promoted technical excellence, teamwork, and healthy competition while providing participants with an engaging and enriching learning experience.

BLOCK BY BLOCK

Block by Block was an online ideation competition where participants designed innovative structures using a virtual Minecraft platform. The event encouraged the application of civil engineering principles such as structural design, spatial planning, functionality, and construction techniques in a creative digital environment. Entries were evaluated based on innovation, engineering logic, and design quality. By combining technology with practical learning, the event fostered creativity, critical thinking, and problem-solving skills while inspiring participants to explore real-world engineering concepts in an engaging way.

OUTREACH EVENT

The Sustainable Development Goals (SDG) Outreach Presentation introduced students to the 17 United Nations Sustainable Development Goals and their significance in addressing global challenges. The session emphasized the importance of civic responsibility, sustainability, and individual contributions toward achieving these goals. Participants gained insights into translating global objectives into meaningful local actions through practical resources and discussions. The event successfully inspired awareness, social responsibility, and a commitment to sustainable development.

STRUCTURAL SNAPS

Structural Snaps was a creative reverse blueprint challenge that tested participants' communication and visualization skills. Working in teams, one member described a structure verbally while others recreated it without seeing the original design. The event emphasized clarity, teamwork, attention to detail, and effective technical communication, reflecting the precision required in real-world engineering projects. It provided an engaging platform to develop collaboration and design interpretation skills.

REELSPLASH - SAVE EVERY DROP :

ReelSplash – Save Every Drop was a digital storytelling competition conducted during Water Conservation Week to promote awareness about sustainable water use. Participants created short reels showcasing innovative conservation practices and the importance of protecting water resources. Entries were evaluated on creativity, impact, clarity, and visual quality. The event encouraged environmental awareness, creative expression, and responsible water conservation through engaging social media content.

TOOL TIME TRIVIA :

Engineering Tool Identification Challenge was an interactive visual quiz that tested participants' ability to identify engineering tools and equipment from similar-looking images. The event emphasized technical knowledge, observation skills, and practical awareness of tool design and functionality. By encouraging careful analysis and accurate recognition, it enhanced participants' understanding of commonly used engineering equipment in an engaging and educational format.

MATERIALS MASTERY MEET :

Civil Engineering Materials Quiz challenged participants to test their knowledge of construction materials through multiple-choice questions. The quiz covered the properties, applications, and importance of materials such as concrete, steel, aggregates, and polymers. It strengthened participants' technical understanding, encouraged critical thinking, and enhanced practical awareness of material selection and innovation in civil engineering.

INSPECTORS EYE :

Construction Faults and Safety Challenge was a visual learning activity where participants identified construction faults and site safety hazards from real-life images. The event covered topics such as structural defects, material handling, and safe construction practices. It enhanced observation skills, practical knowledge, and awareness of quality and safety standards while encouraging participants to apply engineering concepts to real-world scenarios.

DISASTER RESPONSE CHALLENGE :

Disaster Response Challenge was an interactive simulation that tasked participants with developing engineering solutions for a large-scale natural disaster. Teams presented strategies for emergency response, infrastructure restoration, and long-term resilience based on a fictional case study. The event strengthened problem-solving, teamwork, and communication skills while emphasizing the role of civil engineers in disaster management and resilient infrastructure.

BRIDGES AROUND THE WORLD :

Bridges Around the World: More Than Just Steel and Concrete was an interactive session that explored the cultural, historical, and engineering significance of iconic bridges worldwide. Participants learned about unique bridge designs, innovative construction techniques, and fascinating facts that showcased the connection between engineering, architecture, and society. The event fostered appreciation for bridges as symbols of creativity, resilience, and technological progress.

SDG - BUILDING A SUSTAINABLE FUTURE :

SDG: Building a Sustainable Future was a seminar delivered by Dr. Arunava Ray, focusing on the impact of the United Nations Sustainable Development Goals (SDGs) in India. The session explored the nation's progress, challenges, and strategies for achieving the 2030 Agenda. Participants gained valuable insights into sustainable development and the role of localized initiatives in addressing national and global challenges.

ALUMNI CONNECT :

Alumni Networking Session connected students with successful alumni to provide career guidance and industry insights. Participants explored current professional trends, mentorship opportunities, and strategies for career development through interactive discussions. A featured alumnus specializing in Geographic Information Systems (GIS) shared valuable experiences on higher education abroad and navigating the field, making the session informative and inspiring for aspiring professionals.

Indian Concrete Institute (ICI)

The Indian Concrete Institute (ICI), VIT Student Chapter promotes knowledge and innovation in concrete technology and construction practices. Through technical sessions, workshops, and industry interactions, it helps students understand modern materials, sustainable practices, and advancements in concrete engineering.

SQUID GAME : THE FINAL SHOWDOWN

Squid Game: The Final Showdown was a technical-fun event inspired by the popular series, combining competitive challenges with practical civil engineering concepts. Conducted in a four-round elimination format, the event tested participants' teamwork, analytical thinking, and engineering judgment through engaging physical and technical tasks. Each round demonstrated concepts such as structural stability, force distribution, center of gravity, material strength, and load transfer. The event attracted enthusiastic participation and successfully blended experiential learning with entertainment, making it a memorable highlight of Gravitas 2025.

CONCRETE IN ARCHITECTURAL ASPECT

The technical seminar on “Concrete in Architectural Aspects”, delivered by Professor Dipika M (V-SPARC), explored the significance of concrete in modern architecture. The session highlighted its structural versatility, aesthetic appeal, and applications in prefabrication and Brutalist design through examples of iconic projects by renowned architects. Sustainable aspects, including durability, thermal efficiency, and green construction practices, were also discussed. An interactive quiz with souvenirs for winners encouraged active participation, making the seminar an engaging, informative, and enriching learning experience for all attendees.

FIX THE FLOW

Fix the Flow was a full-day innovation and social awareness competition conducted during Water Conservation Week 2025. Participants identified instances of water wastage across the campus, analyzed their causes, and proposed practical, sustainable solutions. Teams presented their findings through PowerPoint presentations, which were evaluated by a panel of faculty members based on feasibility, originality, and impact. The event promoted responsible water management, encouraged innovative thinking and teamwork, and strengthened students' problem-solving skills while fostering awareness of sustainable practices.

GUESS THE MESS

Guess the Mess was an interactive Scribble Game where participants competed in pairs, with one member drawing civil engineering or university-themed prompts while the other guessed without verbal communication. Conducted in a knockout format, the event progressed through multiple rounds, culminating in semi-finals and finals. Live commentary kept the audience engaged throughout the competition. The event concluded with a prize distribution ceremony, promoting teamwork, creativity, quick thinking, and effective non-verbal communication in a fun and engaging environment.

BEYOND THE CLASSROOM

Beyond The Classroom was an offline mentoring and career guidance session led by alumnus Mayank Garg (2018–2022 batch), currently a Customer Support Specialist at Wolters Kluwer. The session focused on balancing academics, co-curricular activities, and career preparation to achieve professional success. Participants gained practical insights into time management, goal setting, placement readiness, and career planning through the speaker's real-life experiences. The event inspired students to make informed career decisions and prepare effectively for future opportunities.

GUESS THE PICTURE :

Guess the Picture: The Blurred Challenge was an interactive online quiz where participants identified famous buildings and landmarks from blurred images shared on Instagram Stories. Using multiple-choice questions, the event tested observation skills and architectural knowledge in an engaging format. It encouraged participants to explore global architecture and heritage while promoting learning through an accessible and interactive digital platform.

CASA :

The CASA (Campaign Against Substance Abuse) awareness session, led by Dr. Jetson Satya Gospel, promoted healthy lifestyle choices through interactive activities and motivational discussions. The session emphasized emotional well-being, family support, self-care, and the importance of avoiding drugs, smoking, and alcohol. It concluded on an inspiring note, encouraging students to make responsible decisions and maintain a positive, healthy lifestyle.

OUTREACH :

Sustainable Design Planning was conducted at St. Marks School to introduce students to the principles of sustainable design and environmentally responsible construction practices. The session highlighted the importance of resource efficiency, green building concepts, and sustainable planning in shaping future infrastructure. Through interactive discussions and engaging activities, participants developed greater awareness of sustainable engineering and its role in creating a better future.

EXPLORING DIMENSIONS :

3D Concrete Printing was organized in collaboration with the ASCE Student Chapter to introduce participants to the emerging field of 3D concrete printing. The session explored its working principles, materials, applications, and impact on modern construction. Students gained valuable insights into how additive manufacturing is transforming the industry by improving efficiency, sustainability, and innovation in infrastructure development.

ALUMNI TALKS :

Reflections and Revelations brought together VIT alumni Suruchi Karn and Abu Gulfam, Project Executives at Vestian Global, to share their professional journeys and industry experiences. The session offered valuable insights into career growth, workplace challenges, and opportunities in the construction sector. Students gained practical knowledge, career guidance, and inspiration through engaging discussions and interactive conversations with the distinguished alumni.

QUIZMAS :

Quizmas : Under Construction was a festive online quiz competition that combined civil engineering knowledge with the spirit of Christmas. Conducted through Google Forms, the event featured engaging and thought-provoking questions that tested participants' technical understanding and problem-solving skills. Quizmas encouraged healthy competition, interactive learning, and enthusiasm while making engineering concepts enjoyable in a fun, holiday-themed setting.

QUIZCRETE :

Mastering Modern Concrete was an online quiz competition designed to test participants' knowledge of modern concrete technology, materials, and construction practices. Conducted through Google Forms, the event challenged students with questions on innovative concrete applications and industry trends. It promoted technical learning, critical thinking, and healthy competition while encouraging participants to strengthen their understanding of contemporary advancements in concrete engineering.

CON-CURE-IT :

Con-Cure-It was a hands-on technical event conducted as part of Yantra – A Week of Technical Innovation. Participants explored the importance of concrete curing by applying proper curing techniques and understanding their impact on strength, durability, and performance. The event combined practical learning with technical concepts, enhancing participants' knowledge of concrete technology while encouraging teamwork and problem-solving skills.

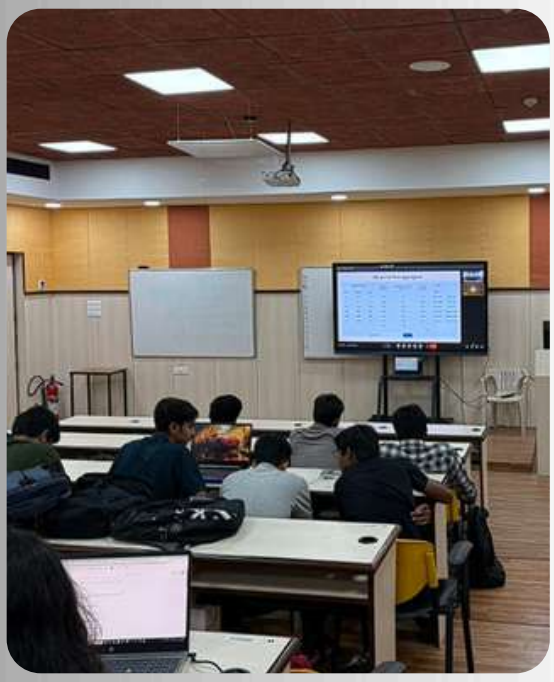
Indian Society of Earthquake Technology (ISET)

The Indian Society of Earthquake Technology (ISET), VIT Student Chapter focuses on advancing knowledge in earthquake engineering and seismic safety. Through expert interactions, technical sessions, and practical exposure, it enables students to explore seismic risk assessment and contribute to the development of earthquake-resistant technologies.

QUAKERESILIENT: INNOVATE FOR WATER SECURITY

QuakeResilient: Innovate for Water Security was an ideathon that encouraged participants to develop innovative and practical solutions for ensuring water security in earthquake-prone regions. Teams proposed ideas focused on resilience, emergency preparedness, sustainable water systems, and alternative water sources. Entries were evaluated based on creativity, feasibility, impact, and clarity. The event promoted critical thinking, innovation, and awareness of resilient water infrastructure, inspiring participants to address real-world challenges through sustainable engineering solutions.

SEISMOSOLVE



SeismoSolve was a two-day workshop on earthquake-resistant design and structural rehabilitation, featuring expert sessions on seismic behavior, sustainable construction materials, GIS-based hazard analysis, and advanced retrofitting techniques. A case study competition enabled participants to apply theoretical concepts to practical engineering challenges, fostering teamwork, critical thinking, and problem-solving skills. The event successfully bridged academic knowledge with industry practices, promoting innovation in disaster-resilient infrastructure and emphasizing the importance of safe, sustainable, and resilient structural design.

STRUCTR-A-THON : SEISMIC EDITION

Structr-a-Thon: Seismic Edition was a 36-hour structural design competition where teams designed and built scaled models to withstand simulated earthquake forces. Participants applied earthquake engineering principles through brainstorming, model construction, optimization, and technical presentations. The structures were evaluated using shake table and load tests based on strength, failure patterns, material efficiency, and design approach. The event provided practical exposure to seismic behavior, structural analysis, and engineering design while fostering innovation, teamwork, and problem-solving skills.

STONE & STORY

The Industrial Visit to Mahabalipuram provided students with an enriching blend of technical learning and cultural exploration. Participants examined the structural design, construction techniques, and historical significance of the region's iconic monuments while gaining insights into coastal engineering and heritage conservation. The visit highlighted the application of engineering principles in ancient architecture and encouraged discussions on preservation practices. It also promoted peer interaction, knowledge sharing, and practical learning, making it a valuable and memorable educational experience.

CUT 'N' CRAFT

The Paper Craft Workshop was organized to inspire creativity and hands-on learning among school students through engaging paper craft activities. Participants created a variety of colorful models using techniques such as folding, cutting, and designing, enhancing their creativity, patience, and fine motor skills. The workshop encouraged teamwork, artistic expression, and active participation in a fun and interactive environment. It concluded with students proudly showcasing their creations, making the session an enjoyable and memorable learning experience.

RESILIENT RISING :

Resilient Rising: Earthquake Engineering Wonders of Japan was an interactive Instagram quiz that explored Japan's advancements in earthquake-resistant engineering. Participants learned about seismic safety techniques, base isolation, energy dissipation systems, and iconic resilient structures through engaging visual content. The event enhanced awareness of innovative engineering practices and highlighted the importance of resilient infrastructure in reducing seismic risks and improving structural safety.

FAULT LINES & TECTONIC TRIALS :

Fault Lines & Tectonic Trials was an online quiz that tested participants' knowledge of seismic hazards, fault types, and plate boundaries through carefully designed multiple-choice questions. Using real-world earthquake examples, the event enhanced understanding of earthquake science, tectonic processes, and geotechnical engineering while promoting awareness of seismic resilience and disaster preparedness.

MYTH VS REALITY :

Myth vs Reality: Earthquake Edition was an interactive online awareness event that dispelled common misconceptions about earthquakes through quizzes and real-world case studies. The session explained earthquake behavior, structural response during seismic events, and modern technologies such as base isolation, damping systems, and retrofitting. It enhanced participants' understanding of seismic safety and resilient infrastructure in an engaging format.

QUAKEPROOF :

Quakeproof – The Future of Foundation, conducted by ISET-VIT on 21st June 2025 via Google Forms, was an engaging and informative quiz event that explored the principles of earthquake-resistant foundation systems. With topics ranging from soil-structure interaction to advanced seismic technologies like base isolation and energy dissipation, the event offered participants valuable insights into modern civil engineering practices. The interactive format and real-life case studies made it an enriching experience, highlighting the importance of resilient foundation design in shaping a safer future.

SEISMO QUEST :

Seismo Quest was a live Instagram quiz that tested participants' knowledge of earthquakes, seismic engineering, and disaster preparedness. Through real-time questions, the event promoted awareness of seismic safety in an engaging and interactive format. It encouraged technical learning, curiosity, and knowledge sharing while strengthening participants' understanding of earthquake science and disaster resilience.

ECOLOG-IQ :

EcoLogIQ – The Ultimate Green Quiz Challenge was an online quiz competition conducted to promote environmental awareness and sustainability. Participants tested their knowledge on topics including climate change, biodiversity, environmental policies, and sustainable practices through an engaging competitive format. The event encouraged critical thinking, eco-conscious decision-making, and meaningful discussions while inspiring participants to contribute towards a more sustainable future.

RESIST :

Resist was an online awareness quiz that educated participants about earthquake preparedness, disaster resilience, and seismic safety. Conducted through Instagram, the event featured interactive questions linking theoretical concepts with real-world engineering applications. It encouraged critical thinking, enhanced awareness of structural safety, and promoted informed decision-making for effective disaster preparedness and resilient infrastructure.

BRIDGE BATTLE ROYALE :

Bridge Battle Royale was a hands-on bridge design competition that challenged participants to design and construct bridge models using Popsicle sticks. Through design, construction, and testing phases, participants applied structural and earthquake engineering concepts while exploring innovative truss configurations. The final models were evaluated through rigorous load testing, promoting creativity, teamwork, problem-solving, and practical understanding of structural behavior in an engaging competitive environment.

Our alumni stand as the true foundation of our institution's ideals, values, and spirit. By taking on impactful leadership roles and driving engineering innovation, they continue to inspire our current students. This edition brings you the personal journeys of graduates who are truly shaping change.

Mr. Dhanush Adhiban Arul (Class of 2021)
Co-founder, Dreamshell Constructions

For as long as I can remember, I've been fascinated by the 'how' behind megaprojects the Burj Khalifa, for instance, was a huge inspiration for me. That curiosity, fueled by a love for Maths and Physics, is what led me to Civil Engineering.Today, as a co-founder of a startup, my day-to-day is a whirlwind. With a team of 8 permanent engineers and 70 laborers, I'm doing everything from project execution planning and budgeting to the legal nitty-gritty of tender contracts. Right now, I'm particularly excited about precast construction. In the infrastructure projects we handle, precast is a gamechanger it slashes timelines without hitting the quality of the structure.Looking back, VIT's FFCS system was more than just picking classes; it was our first real lesson in project scheduling. Managing those constraints was the perfect training ground for the professional world. My advice? Patience is a virtue. Don't get disheartened comparing your starting salary to other branches. Civil is an evergreen field with incredible security. If you stay resilient and keep your passion for the subject, you will reach great heights.

Mr. Ben Nitin Ezhil (Class of 2012)
CEO, Mulk Properties and Uniqube
M.Sc. Construction Project Management,
Heriot-Watt University

I've always felt that Civil Engineering sits at that perfect intersection of creativity and technical expertise. It's one of the few professions where you can actually see the outcome of your work at scale. Growing up with a father in the field, I was constantly amazed by the buildings he helped bring to life.

The scope right now is massive. In India, it's infrastructure growth; globally, especially in the Middle East, the focus is on future-ready cities. The future belongs to those who can integrate technology with sustainability. VIT gave me that structured approach to problem-solving and the discipline needed to manage large teams.

If you're looking to stand out, I highly recommend certifications like PMP, BIM tools, and planning software like Primavera. Also, get to know LEED standards. But my biggest piece of advice is: Get on-site. Understand how projects are executed in the real world. Develop your leadership and communication skills early. Stay consistent—this is a field where experience and persistence create long-term success.

Mr. Er. S. Muthukumar (Class of 2017)
Assistant Engineer, Water Resources Department,
(Govt. of Tamil Nadu)

"The beauty of Civil Engineering is its sheer variety. Whether it's structural, environmental, or transportation, the opportunities are everywhere, both in the public and private sectors. I chose this field because I wanted to be part of that vast impact.

My time at VIT, specifically the FFCS and the focus on multiple graduation projects, was pivotal. It wasn't just about reading; the open-book exams forced us to actually understand the concepts rather than just memorizing them. That hands-on foundation is what I rely on every day in the Water Resources Department.

In the industry, you quickly realize that everything is about teamwork. You aren't just an engineer; you are part of a multi-functional machine. One thing I see fresh graduates struggle with is a lack of proper record-keeping and an over-reliance on software. Don't let the computer do all the thinking—you need to understand the 'why' behind the results.

My roadmap for you is simple: Attend your lectures, maintain a strong CGPA, and stay close to your professors. Master the core concepts—Soil Mechanics, Strength of Materials, and Hydraulics. Use your internships to understand the real-world complexities that a textbook can't teach you."

CREATIVE CANVAS

The Weight of Unspoken Thoughts

In a town where rot begins to grow,
The buildings weaken, and time moves slow.
The streets are empty, the air feels dull,
A place once bright, now dead and full.

The smell of rubbish, the feel of decline,
A world left neglected, no spark, no sign.
Anxiety begins and unease takes hold,
In a place where happiness no longer unfolds.

Depression spreads, like shadows that creep,
Everything fades, buried too deep.
The corruption spreads, unseen yet clear,
The world around us breaks down in fear.

But we can restore, we can purify,
Let the old ways recycle and let it fly.
From the depletion, a new hope may rise,
To infect the world with brighter skies.
We'll battle the chaos, we'll fight the rot,
And find a way to heal this forgotten spot.
We'll chase away the darkness, let the light shine

~ PRASHANS DIXIT
24BCL0138

A detailed human eye, drawn with fine lines, appears partially beneath a surface of water. While gentle ripples and subtle water marks surround the eye, leaving the rest of the face unseen. The water suggests submersion, though whether the person is swimming, floating, or simply looking up from below remains open.

An owl with a grazing, unblinking stare that seems to break through the page. Though drawn without color, the play of shadows hints at rich browns, deep greys, and soft whites. Neither sky nor ground is clear—just the owl, suspended in its own stillness, looking right through you.

~ KAVIN RAJ
22BCL0103

A Home of Waiting

Have you been to an orphanage home?
Those quiet rooms that ache for love,
A spark lights their eyes when a stranger meets-
Hope blooms in hearts that have waited for years.

They wait for birthdays-not theirs, but ours-
Just for a plate of sweets or a few bright flowers.
They crave a hug, a whisper of care,
They wonder why life's been so unfair.

Those faces always longed for
a family, a get-together,
A mother's love that feels like forever.
The art of tasting a mother's food, warm and kind,
A flavor of love they're still trying to find.

The art of crawling into a father's lap,
And roaming the world, wild and free.
They ask in silence, What did I do wrong?
Why don't I belong where love belongs?

They long for the love that others receive,
And dream of a family in every eve.

They don't want riches, they don't need fame,
Just someone to call their own name,
A home, a heart, a place to stay,
To feel like they matter every day.

Unspoken Love

What is the purest form of love?
Have you ever heard your mother say-
"I don't like it"-and turn away?
But deep within, her heart would know,
It once lit up her world with glow.
She gave it up without a word,
Because your smile was all she heard.
Loving you meant something more,
Than all she ever loved before.

Pause for a moment, breathe, and see-
Why does your father bend his knee
To labor through the dust and dawn-
Is it for riches to lean upon?
Not for gold, nor diamonds,
But for the life you call dream.

Each morning breaks, he stands once more,
Though tired bones, not for comfort, not for fame,
But for a day you'd rise.
His joy was quiet, soft, and still-
It danced to your laughter, bent to your will.
Your happiness, smile and laughter
Was a rhythm in his heart all along.

And have you heard your mother say,
"It's a bad day-just go away"?
But even then, she stayed firm,
Drawn to the comfort of your smile.
She never meant to close your door,
She just needed your love a little more.
For when her skies were dim and grey,
Your voice would chase the clouds away.

~ K RASANJANA
24BCL0149

Glory Spotlights

Ria Singhal

Ria Singhal, a final-year Civil Engineering student at VIT Vellore, is a passionate innovator dedicated to developing sustainable solutions for real-world challenges. Her work in environmental engineering is reflected in her patented innovations, including a **Compact Grey Water Filtration System** and a **User-Friendly Water Storage Tank Cleaning Mechanism**, showcasing her ability to transform practical problems into impactful engineering solutions.

Her **Urban Heat Island Monitoring System** further demonstrates her commitment to addressing climate challenges through smart and proactive approaches. She also expanded her global exposure through a summer program at **Texas A&M University, Qatar**, where she explored renewable energy systems and sustainable building practices. What truly sets Ria apart is that she is the founder and driving force behind her startup, **Civilytix Pvt. Ltd.**, a pioneering water-tech venture focused on sustainable innovation. Through her startup, she has developed India's first fully automated, AI-driven solar grey water filtration system, integrating edge AI for real-time decision-making and soft sensing technologies to enhance efficiency while eliminating the need for manual intervention. At VIT, she serves as the Innovation Head for Hardware at the Institution's Innovation Council, inspiring students to think creatively and pursue innovation. She is also actively contributing to the **ICDK Water Innovation Challenge**.

Meetu R Binu

Meetu R Binu, a final-year Civil Engineering student from VIT Vellore, exemplifies academic excellence combined with global exposure and strong technical expertise. As part of the prestigious 3+1+1 Joint Educational Programme, she is currently pursuing her final year at the **National University of Singapore (NUS)**, with a focused interest in Sustainable Infrastructure and Environmental Engineering.

Her academic journey is enriched by valuable industry experience through internships at the **National Transportation Planning and Research Centre (NATPAC)** and the **Vizhinjam International Seaport**, where she gained hands-on exposure to transport planning models, infrastructure logistics, and large-scale construction methodologies. Adding to her achievements, Meetu has also contributed to academic research through her publication titled "**Remodelling Civil Engineering Education in India: Industry-Oriented Curriculum Incorporating Building Information Modelling**", published by L Ordine Nuovo in September 2023. Her work reflects a forward-thinking approach toward modernizing civil engineering education by integrating industry-relevant tools and practices. At VIT, she serves as the Secretary of the ASCE VIT Chapter, playing a key role in organizing technical events and fostering collaboration between students, faculty, and industry professionals. She is proficient in tools such as STAAD.Pro, AutoCAD, ArcGIS, QGIS, and Revit (BIM), strengthening her capabilities in structural design, spatial analysis, and construction planning.

FAREWELL

The Journey Continues

#ClassOf_2026
B. Tech

Not the end, just the beginning of new journeys!

FAREWELL

The Journey Continues

#ClassOf_2026
M.Tech

Not the end, just the beginning of new journeys!

"Every achievement is a foundation, strong enough to shape tomorrow."

civilmag@vit.ac.in sce.vit vit.ac.in/schools/sce +91 416-2202221

THE CIVITIMES | 2025 EDITION