

SCE e-NEWSLETTER

SCHOOL OF CIVIL ENGINEERING (SCE)

VIT - A Place to Learn; A Chance to Grow



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Vision Statement of the School of Civil Engineering

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

Mission Statement of the School of Civil Engineering

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 (PEOs)

PEO1: Graduates will be successful civil engineering professionals / entrepreneurs.

PEO2: Graduates will pursue higher studies and research for professional development.

PEO3: Graduates will demonstrate civic responsibility in addressing societal and environmental challenges.

DEAN'S MESSAGE

From pioneering smart infrastructure solutions to designing resilient urban environments, our collective work is making a tangible difference in the real world. At the School of Civil Engineering (SCE), VIT, we build on this strong foundation while preparing our students to meet the changing needs of a rapidly evolving world.

It gives me immense pleasure to present this edition of the School of Civil Engineering Newsletter, showcasing the accomplishments and milestones of our faculty members and students. The past quarter has been marked by commendable achievements in teaching, research, innovation, and professional activities. I am particularly delighted to see our faculty and students continued to excel in academics, research, and co-curricular activities, bringing recognition and pride to the school. These accomplishments reflect the dedication, perseverance, and collaborative spirit of our faculty, staff, and students.

I extend my sincere thanks to everyone in the SCE community for your unwavering commitment, passion, and support. Together, we will continue to elevate SCE's legacy and embrace new opportunities for learning, innovation, and impact. I hope you all enjoy reading the updates and achievements of students and faculty members of SCE and extend your co-operation and support for all our future accomplishments

- Dr. M. P.Saravanakumar

STUDENTS' ACHIVEMENTS

1. Athidharani K V (23BCL0011), G P Nishok Kumaar (23BCL0026) and Varoon R (23BCL0013) secured 1st position at OpenRoads Designer competition held at IIT Bombay on March 22nd 2025.
2. Mr. Vrundan Patel (23BCL0063) brought laurels to VIT by representing VIT Model United Nations Society - United Nations General Assembly (DISEC) – Honourable Mention.
3. Ms. Fathima Nairah (23BCL0092) participated and represented VIT Model United Nations Society - Economic and Social Council - Special Mention.
4. Mr. S. Harthikvarshan (21BCL0074) brought laurels to VIT by winning the Men's Basketball winner - AdvITYa2025 national level sports at VIT Bhopal and Basketball 3rd position - VIBRANCE2025 National level sports at VIT Chennai and 3rd position - District Level basketball Tournament 2025 at CMC, Bagayam.



5. The students, from the School of Civil Engineering, as members of team Levitate Hyperloop, participated in the Global Hyperloop Competition 2025, held from February 21st to 24th at IIT Madras. The team, comprised of 32 members and competed in the Design X Blueprint and Innoquest tracks and achieved in: Best Design X Blueprint Award (Overall Design X Winners) Design X Blueprint Best Subsystem Award – Traction, Design X Blueprint (Special Mention) - Embedded Systems Innoquest First Runner- Up Award - Technical Research Best Documentation Award Anshuman Lenka (23BCL0059), Piyush Raj (23BCL0076), Ashish Kumar (23BCL0019), Lokesh Rastogi (23BCL0072) and Swetha Mohandas (23BCL0091).
6. Varoon R (23BCL0013), Nishok Kumaar G.P (23BCL0026) and Abhinav Sahil (23BCL0060) secured the 3rd position in Inquisitive – Civil Engineering Quiz held at ASCE India Student Symposium 2025, Mukesh Patel School of Technology Management & Engineering, Mumbai on March 28th 2025.
7. Merlin T Jai (22BCL0072) and Harshit Sajeevan (22BCL0124) secured 3rd position in Design & Innovation Concept Show held at ASCE India Student Symposium 2025, Mukesh Patel School of Technology Management & Engineering, Mumbai on March 28th 2025.
8. Ajay Shankar (22BCL0105) secured 3rd position in ASCE UESI Surveying Competition held at ASCE India Student Symposium 2025, Mukesh Patel School of Technology Management & Engineering, Mumbai on March 28th 2025.
9. Niranjana S (22BCL0054), Sreya Prasobh (22BCL0079), Lakshmi Nair (22BCL0110), Athidharani K V (23BCL0011), Vignesh Pranav V S (23BCL0012) and Lakshmi S (23BCL0089) were lauded as runner up in the Technical Poster Making Competition at ASCE India Student Symposium 2025, Mukesh Patel School of Technology Management & Engineering, Mumbai on March 28th 2025. Along with Annie Elsa Sujith (22BCL0006), Ratna Pani Bajracharya (22BCL0142), Abhijith Maneesh (23BCL0036) and Tourangbam Achamba (23BCL0042) were lauded as runner - up, Sky Is Pink – Civil Engineering Challenge at the same event.
10. Mahammad Toufik Shaikth (23BCL0086) secured the Overall 3rd Position in the Combustion Category at Formula Bharat, Kari motor, Coimbatore on January 19th 2025.



PATENTS

1. Prof. Ankit Kumar, Dr. Mohan Ganesh G and Mr. Ragul G published a patent titled “Side Reinforcement Support Interlocking Stack Brick” on 8th March 2025.
2. Prof. Ankit Kumar, Dr. Mohan Ganesh G and Mr. Ragul G published a patent titled “Intra Reinforcement Brick” on 8th March 2025.

FUNDED PROJECTS

1. Dr. Vasantha Kumar S has received a grant of Rs. 25,13,177/- from ISRO-SAC to conduct a research project on the title “Development of a Performance Evaluation Dashboard for Urban Arterials and Highways using NavIC GNSS data on January 1st, 2025.
2. Dr. Chandrasekaran has received a grant of Rs. 25,46,000/- from CBPO, ISRO to conduct a multidisciplinary research project on the title “Assessing Building Vulnerability to multiple hazards in hilly Environments: An InSAR and Geotechnical Data Approach on March 13th, 2025.
3. Dr. Thirumalini S received a project titled “Impact of Particle Size on the Calcination Process and Quality of Clay” from FLSmidth Private Ltd. The project was sanctioned under the CO₂ Research and Green Technologies, VIT, Vellore, with a start date of 11.04.2023 and an end date of 11.04.2027, for a total duration of 4 years. The project was sanctioned in March 2025, with a funding amount of ₹32.00 lakhs.

CONSULTANCY PROJECTS

1. Dr. Ganapathy G.P received a project titled “Comprehensive Hydro-Geological Survey and Investigation to Arrest Water Logging Issue and to Suggest Suitable Mitigation Measures in Premises” from Malladi Drugs and Pharmaceuticals Ltd., India, under the Centre for Disaster Mitigation and Management, VIT, Vellore, for a duration of 3 months, with a funding amount of ₹3.83 lakhs on January 2025.
2. Dr. Mohan Ganesh G received a project titled “Condition Assessment of Fire-Affected Structure” from Ultramarine Pigments Ltd., Ranipet, India, under the School of Civil Engineering, VIT, Vellore, for the period February – March 2025, with a funding amount of ₹2.31 lakhs.
3. Dr. Prasanth S, with Dr. Sekar S K as Co-PI, received a project titled “Condition Assessment of Roselyn Gardens Apartment Building” from Roselyn Garden Apartments, India, under the Centre for Disaster Mitigation and Management, VIT, Vellore, for a duration of 14 days, with a funding amount of ₹0.59 lakhs on March 2025.
4. Dr. G.P. Ganapathy, Professor Higher Academic Grade, SCE delivered a lecture on “Landslide Disaster Risk Reduction” on 7th February 2025 at Malvy Mission Teacher Training Centre, Thiruvananthapuram, India.

FACULTY OUTREACH

1. Dr. Monali Priyadarshini, Assistant Professor, SCE conducted a workshop on “Design, Development and Performance Evaluation of Photocatalytic Membrane Reactor for Degradation of Recalcitrant Pollutants” on 5th March 2025 at Anna University, Chennai, India.
2. Dr. G.P. Ganapathy, Professor Higher Academic Grade, SCE delivered a lecture on “AI in Disaster Management” on 19th March 2025 at GH Raison College of Engineering, Nagpur, India.
3. Dr. Shantha Kumar S, Professor Higher Academic Grade, SCE conducted a seminar on “Clean Water for All” on 21st March 2025 at Periyar University, Salem, India.

4. Dr. Srimuruganandam B, Professor, SCE participated in an International Conference on Air Quality Monitoring and Modelling 19/03/2025 Kumaraguru College of Technology, Coimbatore, India.

NATIONAL AND INTERNATIONAL EVENTS ORGANISED

1. Dr. Ruben Paul Borg, Professor, Built Environment, University of Malta, delivered an Industrial expert lecture on “Self-Healing Ultra High Performance Concrete” organized by Dr. Thirumalaini S, and Dr. Shanmuga Priya T, Professor Grade 1 at the Department of Structural & Geotechnical Engineering, School of Civil Engineering, on 23rd January 2025.



2. Dr. Foluso Oyedotun Agunbiade, Associate Professor, Department of Chemistry, University of Lagos, Nigeria, delivered an Industrial Expert Lecture on “Addressing Global Water Challenge: Monitoring and Treatments for Clean Water” on 23rd January 2025. The session was organized by Dr. Parimala Renganayaki S, Professor

3. Dr. Ruben Paul Borg delivered a lecture on “Resilience of Coastal Infrastructure in Aggressive Environments” organized by Dr. S. Bala Murugan, Associate Professor Sr. and Head of the department, Dr. M. Hareesh Assistant Professor Sr. Grade 1, School of Civil Engineering, on 3rd February 2025 in CDMM 106.



4. On 5th February 2025, Dr. Ruben Paul Borg, Professor, Built Environment, University of Malta, Malta., shared his view on the title, “Industrial heritage and Conservation” with the third year and final year UG students organized by Dr. A. Abdul Rahim Professor, School of Civil Engineering.

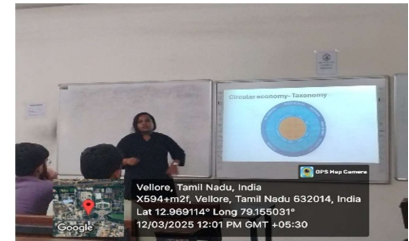
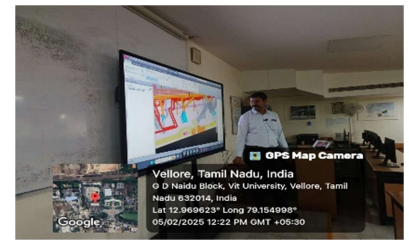


5. Mr. Anoop Baby, Director, Winfra Technical Consultants Pvt. Ltd, Chennai, delivered an industry expert lecture on “Steel Structures in Oil and Gas Industry” organized by Dr. Punitha Kumar A, Head of the Department and Dr. Prasanna Venkatesan R, Associate Professor Grade 1 at the Department of Structural & Geotechnical Engineering, School of Civil Engineering, on 05th February 2025.

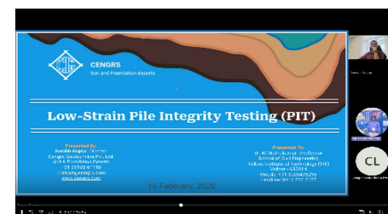
6. Er. Kamal Nayan Mudigonda, Senior Structural Engineer at MIDAS R&D Private Ltd., and Er. Mohammed Hashmat Ahmed, Techno Commercial Engineer at MIDAS R&D Private Ltd., delivered an industry expert lecture on “ILD of the Moving Loads on Bridges” organized by Dr. N. Senthil Kumar, Associate Professor Grade 1 and Dr. G. Mohan Ganesh, Professor Higher Academic Grade at the Department of Structural & Geotechnical Engineering, School of Civil Engineering, on 1st March 2025.



7. Dr. Sebastien Salvador- Blanes, Associate Professor, GeoHydrosystems Laboratory, Faculty of Science & Technology, University of Tours, France., delivered an international expert lecture on “Erosion in Low land Agricultural Catchment Case Study in Western Europe” organized by Dr. Dillip Kumar Barik, Professor Grade 1 and Dr. Vignesh Rajkumar L, Assistant Professor Sr. Grade 2 at the Department of Structural & Geotechnical Engineering, School of Civil Engineering, on 05th March 2025.
8. Mrs. Nitu Joseph, Chief Technology Officer and Co-founder, Declutter Solution Pvt. Ltd., Coimbatore, delivered an Alumni Industry expert lecture on “Circular Economy for Combating - A Multi-Dimensional Perspective from the Waste Management” organized by Dr. N. Vanni, Assistant Professor Sr. Grade 1 at the Department of Structural & Geotechnical Engineering, School of Civil Engineering, on 12th March 2025.
9. Dr. S. Mahenthiran, Associate Professor Grade 1 and Dr. L. Vignesh Rajkumar, Assistant Professor Sr. Grade 2, SCE, VIT coordinated an Industry guest lecture titled “Sustainable Waterfront Development – A Global Perspective” on the 01st March 2025. The resource persons of the event were Dr. Sathish Kumar Sivaprakasam, Coastal Modeller, WSP Consultants India Pvt. Ltd., Pune. A total of 70 participants attended the lecture and actively participated in learning the new technology used in water resources.
10. Dr. Komali Kantamaneni, Co-Director, UN, SPIDER UK-RSO, Senior Coastal Scientist/ Senior Research Fellow, School of Engineering and Computing, Theme Lead, Preston, England, UK., delivered a foreign expert lecture on “Global Coastal Vulnerability: A Multidisciplinary Approach” organized by Dr. Surendar. M, Dr. Prasanth. S and Dr. T. Meena, Associate Professor Sr. at the Department of Structural & Geotechnical Engineering, School of Civil Engineering, on 05th February 2025.
11. Dr. S. Ganesh Kumar, Senior Scientist, Geotechnical Engineering, Academy of Scientific & Innovative Research (AcSIR) , CSIR-CBRI, Roorkee., delivered an Industry expert lecture on “Performance Assessment of Conventional and Sustainable Ground Improvement Technique Against Liquefaction and Reliquefaction Hazard: Experimental Studies ” organized by Dr. Visuvasam J, Assistant Professors Sr Grade 2 and Dr. K. S. K. Karthik Reddy, Assistant Professors Sr Grade 1 at the Department of Structural & Geotechnical Engineering, School of Civil Engineering, on 19th February 2025.
12. Dr. Cecile Grosbois, Professor at the GeoHydrosystems Laboratory, Faculty of Science & Technology, University of Tours, France, delivered an International Expert Lecture on “Urban Contamination: An Example from Paris, France” on 19 February 2025. The lecture was organized by Dr. Srimuruganandam B and Dr. Vignesh Rajkumar L, Assistant Professor Sr. Grade 2 at the Department of Structural & Geotechnical Engineering, School of Civil Engineering.



13. Dr. Sorabh Gupta, Director, Cengrs Geotechnical Pvt. Ltd, Delhi, delivered an Industrial expert lecture on “Pile Integrity Testing” organized by Dr. M. Muthukumar, Professor Grade 1 at the Department of Structural & Geotechnical Engineering, School of Civil Engineering, on 19th February 2025.



14. Mr. Shankar G Subburathinam, Engineering Manager, Caterpillar Pvt. Ltd., Chennai, delivered a lecture on “Absolute Quality Through Zero Defects” organized by Dr. J. Visuvasam, Assistant Professor Sr. Grade 2 and Dr. Punitha Kumar A, Associate Professor Grade 2, Head of the Department, School of Civil Engineering, on 28th February 2025.



15. Er. Kamal Nayan Mudigonda, Senior Str. Engineer, MIDAS R&D Centre, conducted a session in the Three-day workshop on “Advanced Analysis of Bridges Using MIDAS Civil NX” organized by Dr. N. Senthil Kumar, Associate Professor Grade 1 at the Department of Structural & Geotechnical Engineering, School of Civil Engineering, on 28th February 2025 to 02nd March 2025.

16. Mr. Ramakrishnan, Ananthakrishnan, Transportation Engineer, Dar Al-Handasah, Pune., delivered an Alumni expert lecture on “Traffic Impact Studies” organized by Dr. Sasanka Bhushan Pulipati, Associate Professor Grade 1 and Dr. S. Vasantha Kumar, Professor Grade 1 at the Department of Structural & Geotechnical Engineering, School of Civil Engineering, on 26th February 2025

17. Dr. Surinaidu Lagudu, Scientist ‘D’, Groundwater Hydrology Division, National Institute of Technology (NIT) Roorkee., Uttarakhand delivered an Guest lecture on “Geophysical and numerical modelling application for groundwater contamination” organized by Dr. M. Umashankar, Professor Grade 1 and Dr. Parimala Renganayaki, Professors Grade 11, at the Department of Structural & Geotechnical Engineering, School of Civil Engineering, on 11th January 2025.



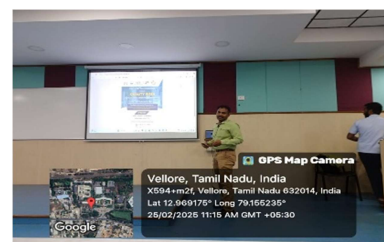
18. Dr. Sofi A organized “Greenprint: Dream Draft Draw”, a Sustainable and Code-Compliant Design Challenge, was held on 6th February 2025 with around 52 participants. The event aimed to engage architects, engineers, and design enthusiasts in designing multi-story buildings that adhere to national building codes and sustainability standards.



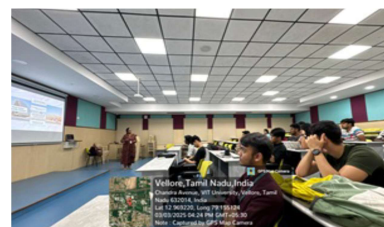
19. Dr. Visuvasam J organized an expert lecture by Dr Ganesh Kumar S on 19th February 2025 on the challenges posed by liquefaction and reliquefaction in seismic-prone areas and the effectiveness of various ground improvement techniques.



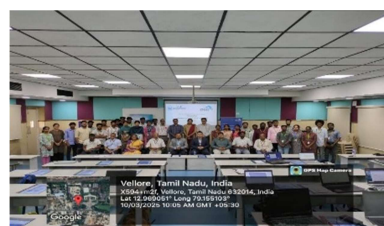
20. Mr. A. K. Farvaze Ahmed, Principal Scientist, CSIR-Structural Engineering Centre, delivered a Quality Week expert lecture on “General Requirement for the Competence of Testing Laboratories” organized by Dr. M. Umashankar, Professor Grade 1 and Dr. Prasanna Venkatesan, Associate Professor Grade 1 at the Department of Structural & Geotechnical Engineering, School of Civil Engineering, on 25th February 2025.



21. Dr. Balamurugan S organized “Concrete in Architectural Aspect” on 3rd March 2025 which was a guest lecture delivered by Dr Dipika M, Professor, V-SPARC focusing on the versatility of concrete and its significance in modern architecture.



22. Dr. Carlos Rivera Villarreyes, Global Product Specialist and Product owner for FeFlow at the DHI Group., conducted a session in the workshop on “Ground Water Modelling Using FEFLOW” organized by Dr. Umashankar M, Professor Grade1 and Dr. Amit Mahindrakar, Professor Higher Academic Grade at the Department of Structural & Geotechnical Engineering, School of Civil Engineering, on 10th March 2025.



23. Dr. Balamurugan S and Dr. Visuvasam J organized “Load Bearing Brains”, a civil engineering quiz challenge on 11th March 2025 was a high-stakes battle of knowledge, featuring 28 teams competing in an intense, multi-round elimination format.



Dr. Visuvasam J, Assistant Professor Sr Grade 2 and Dr. A. Punitha Kumar, Associate Professor Grade 2 jointly organized value added course on “VAC1961-Structural Analysis and Design using STAAD.Pro Connect Edition” at Department of Structural & Geotechnical Engineering, School of Civil Engineering, on 24th March 2025.



24. Dr. Sofi A conducted “Bridge the Gap” on March 24, 2025 was designed to test participants' visual perception, quick thinking, and problem-solving skills, the challenge had contestants analyze images and accurately interpret their meanings.



25. Dr. Subbarao Pichuka, Assistant Professor of Hydraulics and Water Resources Engineering in the Department of Civil Engineering at IIT Madras, presented a guest lecture on “Water Resources Planning & Management.” The event was organised by Dr. P. Jagadeesh, Professor of Higher Academic Grade in the Department of Structural and Geotechnical Engineering, School of Civil Engineering, on 26th March, 2025.



26. Dr. Suresh Babu, Founder and Director of Kalingu Consultancy in Singapore, presented an expert lecture titled “Sustainable Water Resources Management in Singapore.” The event was organised by Dr. Amit B Mahindrakar and Dr. M. Umashankar, Professor Grade 1 in the Department of Structural and Geotechnical Engineering at the School of Civil Engineering on 26th March 2025.



27. Dr. Velvizhi G organized “Snap & Sustain: A Zero Waste Photography Challenge” was conducted on 28th March 2025 where the participants captured sustainability through recycle, reuse, and reproduce, paired with zero-waste quotes.

INDUSTRIAL VISTS

1. Dr. M. Muthukumar, Professor Grade 1 and Dr. OM. Suganya, Associate Professor Grade 1 arranged industrial visit for the B.Tech Civil Engineering students to the Geomarine Consultants Pvt. Ltd., Thiruvannamiyur, Chennai on 27th March 2025. Students learnt SPT at site for collecting sample of soil at deeper level below the ground level and site engineer explained the process.



2. A field visit to Sathanur Dam, Thiruvannamalai, was conducted on 29th March 2025 for the students and faculty members led by Dr. P. Porchelvan and Dr. M. Vaani Assistant Professor (Sr.). The visit aimed to enhance students' understanding of hydraulic structures and water resource management. Participants explored various components of the dam, gaining valuable on-site knowledge.



3. The Department of Environmental and Water Resources Engineering organized an Industry Expert Lecture on 10th April 2025 at CDMM 303. The guest speaker, Mr. Ravi Muttavarapu, Director of GIS at LTI Mindtree, delivered an insightful session on “GIS-Based Decision Support Systems in Urban Planning and Infrastructure Management.” With over 17 years of experience in smart city and infrastructure projects, Mr. Ravi shared real-world applications of GIS in projects like the Statue of Unity, Parwati Mega Lift Irrigation, and Udaipur Smart City. The lecture provided valuable exposure to students on geospatial technologies and their role in infrastructure development.

PUBLICATIONS

Regalla, S. S., & Kumar, N. S. (2025). Optimizing ultra high-performance concrete (UHPC) mix proportions using technique for order preference by similarity to ideal solution (TOPSIS) for enhanced performance: Precision towards optimal concrete engineering. *Case Studies in Construction Materials*, 22, e04205.

Sridhar, D., & Parimalarenganayaki, S. (2025). Evaluation of sources, spatial and temporal distribution, ecological and health risk associated with CAF (Caffeine) and DEET (N, N-diethyl-meta-toluamide) contamination in the urban groundwater parts of Vellore city, Tamilnadu, India. *Environmental Geochemistry and Health*, 47(2), 44.

Sethulakshmi, A. G., & Saravanakumar, M. P. (2025). Reusing cellulose acetate microplastic fibres derived from discarded cigarette butts as superior adsorbent for lead ions: UV ageing, adsorption mechanisms and DOM investigation. *Sustainable Materials and Technologies*, 43, e01319.

Suhas, V. S., & Shanmugapriya, T. (2025). Corrosion performance of ZnO-Based hybrid coated mild steel in concrete pore solutions. *Materials Letters*, 138163.

Siva, K., & Srikanth, D. (2025). Review of Cold-Formed Steel Z-Section Beams: Design Approaches and Performance Analysis. *The Structural Design of Tall and Special Buildings*, 34(2), e2212.

Tipraj, B., Athira, K., & Priya, T. S. (2025). Role of agro waste in geopolymer concrete: strength, durability and microstructural properties. *Engineering Research Express*, 7(1), 015107.

Nair, DS., Meena, T.,(2025). Rubberized geopolymer concrete: Possibilities and challenges. *Indian Concrete Journal*. Volume – 98.

Ricky, R., Harini, S., & Shanthakumar, S. (2025). 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*, 37(1), 1-12.

Nandu, P. P., Madhu, B. E., Reddy, K. S. K., & Adinarayana, B. (2025). 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*, 10(4), 1-22.

Salaimanimagudam, M. P., Jayaprakash, J., & Anwar, M. P. (2025). Selection of Reinforcement Incorporation Method for 3D Printed Concrete using MCDM. *Iranian Journal of Science and Technology, Transactions of Civil Engineering*, 1-13.

EDITORIAL TEAM

Dr. T. Meena (Associate Professor - Senior)
Dr. OM. Suganya (Associate Professor-Gr-I)
Sharvesh J (Student 23BCL0085)
Niranjana (Student 22BCL0054)
Lakshmi S (Student 23BCL0089)
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