

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

Civil Engineering is fundamental to the built environment and to the development of society—from the buildings and infrastructure around us to water resources, transportation, and sustainable cities. 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.

We are committed to ensuring that our students develop a strong understanding of fundamental civil engineering principles while gaining exposure to emerging technologies such as Artificial Intelligence, Building Information Modelling (BIM), drones, LiDAR, Geographic Information Systems (GIS), and Remote Sensing. Through the integration of core knowledge, innovation, and technology, we strive to nurture competent, responsible, and future-ready Civil Engineers.

It is with great pride and enthusiasm that I publish the Eighteenth Issue of the SCE E-Newsletter, to you brought by the School of Civil Engineering (SCE), Vellore Institute of Technology (VIT), Vellore, Tamil Nadu, India. This issue showcases the achievements, activities, innovations, and contributions of our students, faculty, and scholars, while providing an insight into the vibrant academic, research, and professional environment at SCE, VIT

- Dr. A. S. Santhi

WATER CONSERVATION WEEK 2024

Our globe is covered in water, but only a small percentage of it is available for human consumption. Although freshwater supplies are renewable, they are being stressed by factors such as population expansion and climate change. Water conservation is a crucial issue since there is a limited amount of water on Earth that is easily available for human usage. The School of Civil Engineering at the Vellore Institute of Technology (VIT), Vellore, recognized this urgency and organized "Water Conservation Week 2024" from March 18th to 22nd, 2024. The program aimed to raise awareness about water conservation among students and the public. It was inaugurated by Dr. Jayabarathi T, Registrar, in the presence of Dr. A.S. Santhi (Dean), Dr. S. Mahenthiran (HOD), and Dr. A. Punitha Kumar (HOD). Dr. Andimuthu Ramachandran, Ph.D., D.Sc., a distinguished professor from Anna University, Chennai, served as the Guest of Honour and delivered a thought-provoking lecture titled "CLIMATE CHANGE IMPACTS ON WATER RESOURCES IN TAMIL NADU". The event was coordinated by Dr. M. Uma Shankar, Professor and Dr. L. Vignesh Rajkumar, Assistant Professor, SCE, VIT, Vellore. The week-long program included a variety of engaging activities: a guest lecture, short video contest, poster presentation, idea-thon, and a drawing competition specifically for staff children. Encouragingly, a large number of students actively participated in these events. Winners were recognized and awarded cash prizes



STUDENTS ACHIEVEMENTS

- 1) Ameya Rejikumar (22BCL0022) participated in the International Rover Challenge 2024, held at PSG Institute of Technology, Coimbatore, at the National level on 22/01/2024.
- 2) Abishek Ram S S (21BCL0059) participated in Tech Tatva (RoboWar), held at NIT Calicut, at the National level on 25/01/2024.
- 3) Ria Singhal (22BCL0020) participated in Solve the SDDs, held at IIT Madras, at the National level on 22/03/2024.
- 4) Subodh Kumar Yadav (22BCL0143) participated in the University Esports Championship, held at MIT, Pune, at the National level on 29/03/2024.

PATENTS FILED

Dr. Dillip Kumar Barik, Dr. Niranjana Behera, and Ms. Ria Singhal are the inventors of the patent titled “Greywater Filter Mechanism,” filed on 01/03/2024, which has been granted

FUNDED PROJECTS

Dr. Hareesh M received a project titled “Development of DSM – Based Design Rules for Cold – Formed Steel Columns Undergoing Shift of Centroid” from DST – TARE. The project was sanctioned under the school of Civil Engineering, VIT, Vellore, with a start date of 07.02.2024 and an end date of 07.02.2027, for a total duration of 3 years. The project was sanctioned in March 2024, with a funding amount of Rs. 18.30 lakhs.

CONSULTANCY PROJECTS

Dr. Hareesh M served as the Principal Investigator (PI) for the project “Stability Assessment and Design Check for Warehouse and Pilot Shop and Technical Centre,” funded by Neo Heights Builders and Promoters Pvt. Ltd., India. The project was undertaken under the School of Civil Engineering, VIT, Vellore, for a duration of 1 month, with a sanctioned amount of ₹2.19 lakhs. (Jan 24)

Dr. Prasanth S served as the Principal Investigator (PI), with Dr. Ramamohan Rao P as Co-Principal Investigator (Co-PI), for the project “Evaluation of Concrete Rafts Using Non-Destructive Techniques for E-Block,” funded by Kalpataru Projects International Ltd., India. The project was undertaken under the Centre for Disaster Mitigation and Management, VIT, Vellore, for a duration of 21 days, with a sanctioned amount of ₹0.82 lakhs. (Jan 24)

Dr. Thirumalini S served as the Principal Investigator (PI) for the project “Carbon Capture,” funded by Novaday Sciences Pvt. Ltd., India. The project was undertaken under the Centre for CO₂, VIT, Vellore, for a duration of 3 months and 3 days, with a sanctioned amount of ₹1.23 lakhs. (Feb 24)

Dr. Punitha Kumar A, with Dr. Visuvasam J as Co-PI, received a project titled “Structural Design – 10.00 LL Overhead Water Tank” from TWAD Board, India, under the School of Civil Engineering, VIT, Vellore, for a duration of 1 month, with a funding amount of ₹0.59 lakhs. (March 24)

Dr. Prasanth S served as the Principal Investigator (PI), with Dr. Abdul Rahim A and Dr. Visuvasam J as Co-Principal Investigators (Co-PIs), for the project “Condition Assessment of UCO Bank Building,” funded by The United Commercial Bank Ltd., India. The project was undertaken under the Centre for Disaster Mitigation and Management, VIT, Vellore, for a duration of 17 days, with a sanctioned amount of ₹2.32 lakhs. (March 24)

Dr. Prasanth S served as the Principal Investigator (PI), with Dr. Ramamohan Rao P as Co-Principal Investigator (Co-PI), for the project “Concrete Integrity in the Grouted Area on the Raft Footing,” funded by Kalpataru Projects International Ltd., India. The project was undertaken under the Centre for Disaster Mitigation and Management, VIT, Vellore, for a duration of 10 days, with a sanctioned amount of ₹0.29 lakhs. (March 24)

Dr. Thirumalini S served as the Principal Investigator (PI) for the project “Phase Composition,” funded by ALCOLAB India LLP, India. The project was undertaken under the Centre for CO₂, VIT, Vellore, for a duration of 1 month, with a sanctioned amount of ₹0.19 lakhs. (March 24)



Dr. Abdul Rahim A, Professor, School of Civil Engineering, Dr. Visuvasam J, Assistant Professor, School of Civil Engineering and Dr. Prasanth S, Assistant Professor, CDMM, undertook a consultancy for UCO Bank, Chennai, India, on February 10, 2024.

Dr. S. Balamurugan, Associate Professor, School of Civil Engineering undertook a consultancy work for RR Prestress Industries, India for Arriving the mixture proportion for M42 grade concrete pole in TNEDB PSC Yard was undertaken from December 12, 2023 to 13 February 2024.

Dr. M. Hareesh Assistant Professor, School of Civil Engineering consultancy work for Neo Heights Builders and Promoters Pvt Ltd, India for Stability assessment and Design check for ware house and pilot shop and technical centre was undertaken from March 15 2024 to March 31st 2024.

FACULTY OUTREACH

Dr. Mahenthiran, Assistant Professor, School of Civil Engineering, delivered a lecture on "The Resilience Strategies for Natural Disaster" at Kongunadu College of Engineering and Technology, Thottiam Trichy, India on 06.01.24



Dr. R. Prasanna Venkatesan, Associate Professor, School of Civil Engineering, delivered a lecture on "Role of Building Information Modeling in Construction" at Paavai Engineering College, Namakkal, India on 25.01.24



Dr. Vasantha Kumar S, Professor, School of Civil Engineering, delivered a lecture on "An Introduction to LIDAR Survey for 3D modeling" on 16th February, at CDMM VIT Vellore, Vellore, India on 16.02.24



Dr. Punitha Kumar A, Associate Professor, School of Civil Engineering, delivered a lecture on "Design of RC Structural Elements" at Kongunadu College of Engineering and Technology (Autonomous), Trichy., Trichy, India on 15.03.24



Dr. L. Vignesh Rajkumar, Assistant Professor, School of Civil Engineering, delivered a lecture on "Climate Change Impacts on Hydrological Processes of Semi Arid River Basin" at Institution of Engineers India, Salem, India



Dr. S. Bala Murugan, Associate Professor, SCE and Dr. T. Shanmuga Priya, Associate Professor, SCE organized a one-day field visit for UG Civil students to RGT Powerhouse construction site, Homeland VIT Vellore on 23rd January 2024.



Dr. Muthukumar M, Associate Professor, School of Civil Engineering, delivered a lecture on "Geosynthetic based solutions for sustainable Infrastructures" at Sanjivani College of Engineering, Shinganapur, India on 10.05.24

Dr. Vaani N, Associate Professor, School of Civil Engineering, delivered a lecture on " GIS based multicriteria decision analysis for landslide hazard zonation and vulnerability " at VIT, Vellore, India

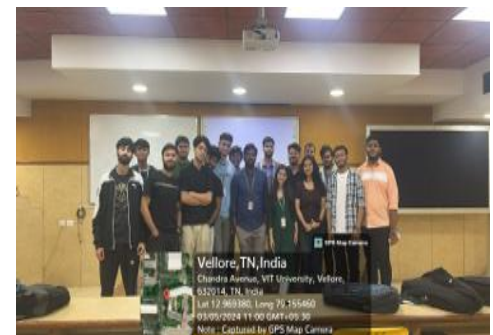
Dr. Shantha Kumar S, Associate Professor, School of Civil Engineering, conducted Webinar on Civil, Environmental and Geological Engineering “Career Orientation for Sustainable Socio- Economic Development” on 23rd March at Manilla Philippines.

NATIONAL AND INTERNATIONAL EVENTS ORGANISED

An event organized by Dr A Sofi, named “Yantra: SUSTAIN-O-POLY:A Green Plotting and Real Estate Venture” on 17th and 18th March 2024 aimed to bring out the creativity of the participants, and to teach the necessity of sustainable structures in the modern world, through an hour long lecture held by Mr. Chetan Sodaye, followed by a two-day build-a-thon.



The event “Yantra: Bridge Battle Royale” organized by Dr Konala S K Karthik reddy on 19th to 20th march 2024. Bridge Battle Royale by ISET was conducted over two days, promoting innovation and creativity in earthquake engineering. Participants designed and constructed Popsicle-stick bridge models based on the given problem statement.



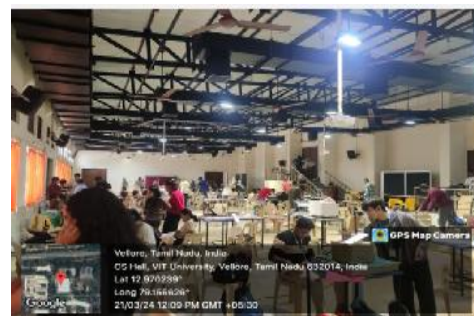
The event “The Building Resilience” conducted by Dr Visuvasam on 27th March 2024. The event showcased cutting-edge construction technology and sustainability practices. Ravi Shhankkar Subramaniam, CEO of First Quadrant Struct Fit, shared insights on innovative retrofitting, Non-Destructive Testing (NDT), and geotechnical strategies.



Dr Visuvasam J, conducted the event “Yantra: DESIGN-A-THON: Sustainable Solutions and Resilient Infrastructure” on 20th and 21st March 2024. Emphasizing hands-on learning, participants were tasked with creating miniature working models utilizing waste materials within a confined space of 1 m³. This innovative approach allowed students to not only comprehend theoretical concepts but also apply them, fostering a deeper understanding of civil engineering principles.



Dr Visuvasam J, conducted the event “ Civil-101” on 5th March 2024. Through interactive sessions, attendees gained insight into the chapter's activities and the importance of individual contributions to the civil engineering community.



Dr. L. Vignesh Rajkumar, Assistant Professor, School of Civil Engineering and Dr. Jayaprakash J, Professor, School of Civil Engineering organized a one-day workshop titled "Training on Microsoft Office Tools for Efficient Data Summarization and Documentation" on March 5, 2024.



Dr. Shanmuga Priya T, Associate Professor, School of Civil Engineering, Dr. R. Prasanna Venkatesan, Associate Professor, School of Civil Engineering and Dr. Hareesh M Assistant Professor, School of Civil Engineering, organized a two-day workshop on "Primavera P6: A Hands-On Practice" on March 8 and 9, 2024.



Dr. Amit B Mahindrakar, Professor, School of Civil Engineering and Dr. Sasikumar S, Professor, Department of Chemistry organized a "TECHNICA-48 Hrs Hackathon" from March 14 to 16, 2024.



Dr. Visuvasam J, Assistant Professor, School of Civil Engineering and Dr. Shanmuga Priya T, Associate Professor, School of Civil Engineering organized a "Design-A-Thon" on March 20 and 21, 2024.



Dr. L. Vignesh Rajkumar, Assistant Professor, School of Civil Engineering and Dr. Vasantha Kumar S, Professor, School of Civil Engineering organized a one-day workshop on "Lidar Technology for Civil Engineering Applications" on March 28, 2024.

Dr. L. Vignesh Rajkumar, Assistant Professor, School of Civil Engineering organized a one-day workshop on “Awareness Session on Maintaining Quality Database in IQAC Portal” on March 6, 2024.



GUEST LECTURES

Dr. R. Siva Chidambaram delivered a lecture on "Importance of Quality Control in Collection of Field Data in Civil Engineering" organized by Dr. Jayaprakash J, Professor, School of Civil Engineering and Dr. L. Vignesh Rajkumar, Assistant Professor, School of Civil Engineering, on March 5, 2024. A total of 72 students attended the lecture.



Dr. S. Adishkumar delivered a lecture on "Role of Engineers in Sustainable Development" organized by Dr. L. Vignesh Rajkumar, Assistant Professor, School of Civil Engineering and Dr. Jayaprakash J, Professor, School of Civil Engineering, on March 6, 2024. A total of 78 students attended the lecture.



Dr. Muthusamy Govarthanan delivered a lecture on "Microplastics as Ubiquitous Global Contaminants", organized by Dr. Parimala Renganayaki S, Associate Professor, School of Civil Engineering, on March 6, 2024. A total of 33 students attended the lecture.



Mr. B. Kondraivendhan delivered a lecture on "Corrosion in Reinforced Concrete" organized by Dr. Senthil Kumar N, Associate Professor, School of Civil Engineering and Dr. Viswanathan T S, Associate Professor, School of Civil Engineering, on March 13, 2024. A total of 28 students attended the lecture.



Dr. A. Ramachandran delivered a lecture on "Impact of Climate Change on Water Resources" organized by Dr. Uma Shankar M, Professor, School of Civil Engineering and Dr. L. Vignesh Rajkumar, Assistant Professor, School of Civil Engineering, on March 18, 2024. A total of 56 students attended the lecture.



Dr. Sebastien Salvador delivered a lecture on "Sediment Transfer in the Lowland Agricultural Catchment" organized by Dr. L. Vignesh Rajkumar, Assistant Professor, School of Civil Engineering and Dr. Porchelvan P, Professor, School of Civil Engineering, on March 20, 2024. A total of 25 students attended the lecture.



Dr. Ashish Verma delivered a lecture on "Understanding Linkages between Sustainable Transport and Development Goals through A Systems Approach" organized by Dr. Vasantha Kumar S, Professor, School of Civil Engineering and Dr. Sasanka Bhushan Pulipati, Associate Professor, School of Civil Engineering, on March 20, 2024.



Mr. Manickvel Arumugam delivered a lecture on "Diaphragm Wall Construction Methods And Its Applications" organized by Dr. Shanmuga Priya T, Associate Professor, School of Civil Engineering and Dr. Bala Murugan S, Associate Professor, School of Civil Engineering, on March 20, 2024. A total of 20 students attended the lecture.



Dr. Cecile Grosbois delivered a lecture on "Emerging Research in Geo-Hydroscience" organized by Dr Vignesh Rajkumar L, Assistant Professor, School of Civil Engineering and Dr Mahenthiran, Assistant Professor, School of Civil Engineering on March 20, 2024.



Mr. Rajesh Kumar delivered a lecture on "BIM For Advanced Infrastructure Technology" organized by Dr Senthil Kumar N, Assistant Professor, School of Civil Engineering and Dr Aiswarya S, Assistant Professor, School of Civil Engineering on March 20, 2024.



INDUSTRIAL VISITS

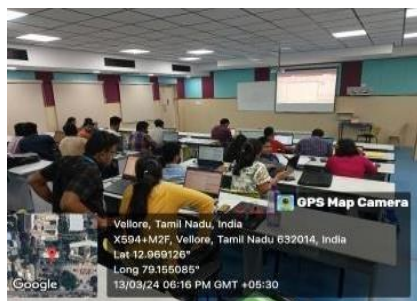


Dr. Bala Murugan S, Associate Professor, School of Civil Engineering and Dr. Shanmuga Priya T, Associate Professor, School of Civil Engineering, coordinated a visit to RGT Power House Construction Site, VIT Vellore, Vellore, India, on May 31, 2023. A total of 27 students participated in the visit.

MEMORANDUM OF UNDERSTANDING

1. An MoU was signed with the University of California, Los Angeles, United States of America on February 1, 2024, for International Research collaboration.
2. An MoU was signed with the University of Tours, France on February 20, 2024 for Field visits, research presentations, internships, and research exchange opportunities.

VALUE ADDED PROGRAM



Dr. Santhi A S, Professor and Dean, School of Civil Engineering and Dr. Punitha Kumar A, Associate Professor, School of Civil Engineering, conducted a value-added program on "VAC1961 - STRUCTURAL ANALYSIS AND DESIGN USING STAAD PRO CONNECT EDITION" from March 11 to 17, 2024. A total of 24 students participated in the program.

ALUMNI VOICE



Er. Rajat Srivastava
Batch: 2017-21; B.Tech – Civil Engineering
Current Company: Reliance Industries Ltd.
Current Designation: Manager – Project Controls

I was able to achieve this career height only because of VIT which provided me with Cosmopolitan Atmosphere, Highly Skilled Professors, Cleaner & Friendly Environment, Future Driven Scope of Teaching.

PUBLICATIONS

1. Priyanka, K. M., and M. P. Saravanakumar. "Ameliorating tannery sludge dewaterability by disintegration of extracellular biopolymers with FeCl₃-MnSO₄/oxalic acid/sodium percarbonate: Spectroscopic profiling of dissolved organic matter in sludge filtrate." *Journal of Water Process Engineering* 58 (2024): 104741.
2. Surendran Hariharan, and Punitha Kumar Akhas. "Unraveling the Strength and Enhanced Durability of Concrete Using Toughened Waste Glass Aggregate." *Journal of Materials in Civil Engineering* 36, No. 3 (2024): 04023634.
3. Jennifer Praveena Das. "Finite Element Analysis of Seismic Hazard in Post-mining Environments of Closed Underground Hard Rock Mines." *Journal of Mining and Environment* 15, no. 1 (2024): 73-96.
4. Akansha J., Somil Thakur, M. Sai Chaithanya, Bhaskar Sen Gupta, Sovik Das, Bhaskar Das, N. Rajasekar, and K. Priya. "Technological and economic analysis of electrokinetic remediation of contaminated soil: A global perspective and its application in Indian scenario." *Heliyon* (2024).

5. Sridhar D., and S. Parimalarenganayaki. "A Comprehensive Review on Groundwater Contamination Due to Sewer Leakage: Sources, Detection Techniques, Health Impacts, Mitigation Methods." *Water, Air, & Soil Pollution* 235, No. 1 (2024): 56.
6. Mathangi Balakrishnan, Vladislav Borisovich Zaalishvili, and Ganapathy Pattukandan Ganapathy. "Study of substrata of a slope susceptible to landslide in hilly environment using a geophysical method in the Nilgiris, India." *Environmental Science and Pollution Research* 30, No. 59 (2023): 123966-123982.
7. Tipraj Babu, and T. Shanmugapriya. "Experimental investigation on trinary blended geopolymer mortar synthesized from Industrial-agro and municipal solid waste ash subjected to different acid exposure." *Materials Research Express* 10, No. 12 (2023): 125503.
8. Sethulakshmi A. G., and M. P. Saravanakumar. "Sustainable papaya plant waste and green tea residue composite films integrated with starch and gelatin for active food packaging applications." *International Journal of Biological Macromolecules* 260 (2024): 129153.
9. Loganathan Sankar, Devananth Ramakrishnan, Mahenthiran Sathiyamoorthy, and Hazi Mohammad Azamathulla. "Assessment of irrigational suitability of groundwater in Thanjavur district, Southern India using Mamdani fuzzy inference system." *Results in Engineering* 21 (2024): 101789.
10. Payyappilly Leanda J., KSK Karthik Reddy, and Surendra Nadh Somala. "Influence of rupture velocity on risk assessment of concrete moment frames: Supershear vs. subshear ruptures." In *Structures*, Vol. 60, p. 105895. Elsevier, 2024.
11. Surendran Hariharan, and Punitha Kumar Akhas. "Properties of high-performance concrete incorporating toughened glass waste coarse aggregate: An experimental study." In *Structures*, Vol. 60, p. 105897. Elsevier, 2024.
12. Raghul M., and P. Porchelvan. "A Critical Review of Remote Sensing Methods for Inland Water Quality Monitoring: Progress, Limitations, and Future Perspectives." *Water, Air, & Soil Pollution* 235, No. 2 (2024): 159.
13. Devarangadi Manikanta, Srikanth Vuppala, M. Uma Shankar, and Mavinakere Eshwaraiah Raghunandan. "Effect of collated fly ash, GGBS and silica fume on index and engineering properties of expansive clays as a sustainable landfill liner." *Cleaner Materials* 11 (2024): 100219.
14. George Giphin, Anu Mary Ealias, and Manickam Puratchiveeran Saravanakumar. "Advancements in textile dye removal: a critical review of layered double hydroxides and clay minerals as efficient adsorbents." *Environmental Science and Pollution Research* 31, No. 9 (2024): 12748-12779.
15. Wani Shoib, Michał Jan Gęca, Thirumalini Selvaraj, and T. Shanmuga Priya. "Assessing the influence of *Bacillus megaterium* and *Bacillus sphaericus* in cementitious materials: Promoting sustainability towards strength, durability and crack repair." *Ain Shams Engineering Journal* 15, No. 6 (2024): 102748.
16. Nair Nishant A., and T. S. Viswanathan. "Optimizing mix proportions of blended cement composites through rheological and strength relations: A numerical modelling approach with curve fitting." *Ain Shams Engineering Journal* 15, No. 6 (2024): 102739.
17. Krishnamoorthy Loganathan, and Vignesh Rajkumar Lakshmanan. "Evaluating hydrogeochemistry and heavy metal contamination of groundwater at Ranipet environs: employing multivariate statistics, agricultural indices, and health risk assessment." *Environmental Science and Pollution Research* 31, No. 19 (2024): 28253-28278.

18. Venkatesh Arumugasamy Thangapandian, Sujatha Rajkumar, and Uma Shankar Masilamani. "Analysing the factors influencing groundwater quality with different pollution indices and PLS-SEM approach in the vicinity of an open dumping yard in Saduperi, Vellore, Tamil Nadu, India." *Environmental Science and Pollution Research* 31, no. 18 (2024): 27052-27068.
19. Thabrez M., and S. Parimalarenganayaki. "Hydrogeochemical characterization and non-carcinogenic health risk assessment of fluoride and nitrate-affected groundwater in northern parts of Tumkur district, Karnataka, India." *Human and Ecological Risk Assessment: An International Journal* (2024): 1-30.
20. Reehana S., and M. Muthukumar. "The Effectiveness of Fibre-Lime Treatment on the Dynamic Properties of Expansive Soil Under Cyclic Loading." *International Journal of Geosynthetics and Ground Engineering* 10, no. 2 (2024): 13.
21. Sravani Tata, Prasanna Venkatesan Ramani, and Madhumathi Anbu. "Comparative analysis of cement-based bricks in India: a cradle-to-gate life cycle assessment." *Engineering Research Express* 6, no. 1 (2024): 015113.
22. Kesavamoorthi R., and G. Mohan Ganesh. "Impact resistance of macro and micro steel fibre reinforced self-compacted concrete (SFRSCC) with modelling and reliability analysis." *Discover Applied Sciences* 6, no. 1 (2024): 17.
23. Vigneshwari Are, and J. Jayaprakash. "A review on 3D printable cementitious material containing copper and iron ore tailings: material characterization, activation methods, engineering properties, durability, and microstructure behavior." *Innovative Infrastructure Solutions* 9, no. 3 (2024): 74.
24. Bashaveni B. and Pannem R.M.R. "Development of self-healing property in self compacting concrete." *Case Studies in Construction Materials*, no. 20 (2024).

EDITORIAL TEAM

Dr. L. Vignesh Rajkumar (Assistant Professor Senior)
Asmita K (Student - 22BCL0055)
Gowtham Sivasubramaniam (Student - 21BCL0154)
Vishanth Nagra (Student - 22BCL0140)
Neha P (Student - 21BCL0193)

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