

SCE e-NEWSLETTER

SCHOOL OF CIVIL ENGINEERING (SCE)

VIT - A Place to Learn; A Chance to Grow



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VISION

- To be internationally recognized in Civil Engineering through ground breaking contributions and exceptional leadership for sustainable development of the society.

MISSION

- To pioneer the emerging technology in Civil Engineering.
- To address the complex societal scale challenges in areas of resilient infrastructure, smart and sustainable cities, water and energy security, climate change, mobility of goods and people & environmental protection.
- To inspire and nurture innovative leaders and entrepreneurs.

DEAN'S MESSAGE

It is my immense pleasure to welcome you all to view the eleventh issue of the SCE e-Newsletter by the School of Civil Engineering (SCE), Vellore Institute of Technology (VIT), Vellore, Tamil Nadu, India. This issue brings out the accomplishment of VITians which includes the students and faculty of SCE that has transpired between April - June 2022. This issue highlights the active participation and contribution in various outreach activities by faculty members and the achievements of undergraduate, postgraduate students and Ph.D. research scholars.

I hope you all enjoy reading the updates and achievements of students and faculty members of SCE and extend your cooperation and support for all our future accomplishments.

- Dr. A. S. Santhi

FACULTY ACHEIVEMENT

Dr. B. Srimuruganandam, Professor, SCE, VIT, Vellore has been nominated as one of the Member (Technical Expert) - Emission Inventory Unit of 'Technical Air Resource Unit for Scientific Analysis, Management and Coordination' consortium set up by Department of Science and Technology, Government of India.

Dr. A. Sofi, Associate Professor, SCE, VIT received DUO-INDIA Fellowship award of 3000 Euros, for doing research at University of Padova, Italy. The fellowship was for a period of one month from May 2nd 2022 to May 31st 2022. During this period Dr. A. Sofi visited University of Padova, Italy for doing research.

Dr. S. Mahenthiran and Dr. L. Vignesh Rajkumar, Assistant Professor, SCE, VIT have been nominated to be a part of the Expert Team under Tamil Nadu State Social Impact Assessment agency (TNSSIA), Government of Tamil Nadu.

Dr. S. Parimala Renganayaki, Associate Professor, SCE, VIT invited Dr. Kang Boosik, Professor, Department of Civil and Environmental Engineering, Dankook University, South Korea as adjunct faculty to teach the course Hydrology during his stay at VIT from 28th June to 7th September 2022.

CONSULTANCY PROJECT

Dr. S. Thirumalini and Mr. M. Hareesh. received a consultancy project entitled "Damage Assessment of Central Mandapa, Dwarakadhish temple, Dwaraka, Gujarat" from Archaeological Survey of India, Rajkot Circle, Gujarat and Heritage India Pvt. Ltd., Delhi, worth of INR 4.15 Lakhs.



STUDENTS ACHIEVEMENT

K. M. Kiruthika (20PHD0897), pursuing research under the guidance of Dr. L. Vignesh Rajkumar, Assistant Professor, SCE, VIT, has secured overall second place in the course titled "Applied Multivariate Statistical Modeling" conducted by NPTEL in January to April 2022.



M. Sharan Pragateiswaran (19BCL0074) the proctee student of Dr. B. Divya Priya has been selected for a research-based internship (MITACS INTERNSHIP) under the accomplished Assistant Professor, Dr. Ahmed Elshaer, P.Eng. at Lakehead University, Thunder Bay, Ontario for the duration from 1st June 2022 to 20th August 2022.



Dev Shree Saini (19BCL0004) the proctee student of Dr. M. Uma Shankar has been selected for research internship (MITACS INTERNSHIP) under Professor Catherine N Mulligan in the project "Restoration of Eutrophic Lake water" at Concordia University Montreal for the duration from 1st June 2022 to 30th August 2022.



INTERNATIONAL COLLABORATIVE WEBINAR

The School of Civil Engineering (SCE), VIT, Vellore and School of Engineering (SoCE) and Universiti Sains Malaysia jointly organised an International Webinar on "Advances in Concrete Technology and Sustainable Construction" for the benefit of students from VIT & USM and Industry experts from Malaysia during 8th June



2022. The welcome speech was given by Prof. Dr. A. S. Santhi, Dean of SCE, VIT and Prof. Dr. Mohd Suffian Yusoff, Dean, School of Civil Engineering (SoCE), USM, Malaysia. Dr. J. Jayaprakash (VIT), Prof. Dr. Megat Azmi Megat Johari (USM), Prof. Ir. Dr. Badorul Hisham Abu Bakar (USM) delivered talks on Strengthening of Reinforced Concrete Columns using FRP Reinforcement, Advanced Concrete Technology for the Realization of Green Concrete Materials, and High Performance Concrete for Sustainable Construction respectively. The industry expert Dr. Ong Chong Yong, Committee Member, fib Task Group 6.5 Precast Concrete Bridges, delivered a talk on Precast Concrete Technology for Sustainable Construction. More than 65 participants from VIT, USM and Industry expert from Malaysia attended the webinar session. This event was organized by Prof. Ir. Dr. Choong Kok Keong, SoCE, USM, Malaysia, Prof. Dr. J. Jayaprakash and Dr. A Punitha Kumar, Assistant Professor, SCE, Vellore

NATIONAL/INTERNATIONAL EVENTS ORGANISED

Dr. A. Sofi, Associate Professor, SCE in association with Academic staff college (ASC), VIT organized a half-a-day FDP on “Fitness is your Wealth” during 20th April, 2022 at VIT, Vellore. The speaker was Dr. P. Nithish Pandian, Senior Consultant Physiotherapist, Shree Nidhi Physiotherapy Clinic and Fitness Centre, Vellore. More than 110 faculty members participated in the event.



Dr. P. Sasanka Bhushan, Associate Professor, SCE organised a competition on “Implementable and Effective Local Action Plan for Improving Road Safety” on 26th April 2022. Eighteen teams of VIT students submitted their Action Plans through online. Based on expert evaluation, two best Action Plans were awarded first and second prizes, and ten other teams were awarded participation certificate.



Dr. T. Meena, Associate Professor and Dr. T. Shanmugapriya, Associate Professor, SCE organised one day workshop on “RECENT TRENDS IN CIVIL ENGINEERING” at School of Civil Engineering, VIT in collaboration with Indian Concrete Institute - VIT Student Chapter on 8th June 2022, Online. More than 55 members from VIT participated in the workshop.



Dr. N. Senthilkumar, Associate Professor, Dr. J. Visuvasam, Assistant Professor, Prof. M. Hareesh, Assistant Professor, SCE, VIT organized a three day workshop on “Structural Analysis and Design using STAAD Pro Connect Edition” on 27th to 29th May, 2022. The event was organized in association with TechApps Consulting, Bentley Channel Partner, Chennai.



Dr. B. Divya Priya, Assistant Professor, SCE, VIT organized a Refresher course on “Soil Mechanics and Foundation Engineering Laboratory” during 18th to 22nd April 2022.



Dr. L. Vignesh Rajkumar, Assistant Professor, SCE, VIT organized a Refresher course on “Surveying Laboratory” for the benefit of Under Graduate students of VIT, Vellore during 18th to 22nd April 2022



NATIONAL AND INTERNATIONAL LECTURES

Mr. Neill Ovenden, Managing Director, Kemo Limited, Unit 1, Dene Yard, Dartford DA2 8DH, United Kingdom delivered lecture on “Sensors and Signal conditioning an effective measurement for research application”, on 5th May 2022. The International Lecture was organized by Dr. A. S. Santhi Professor & Dean and Dr. S. Bala Murugan, Associate Professor, SCE, VIT.



Shri. Raja A, Assistant Controller of Patents and Design, Indian Patent Office delivered a lecture on “Introduction to Intellectual Properties: Patents” on 6th April 2022 organized by Dr. A. Sofi, Associate Professor, SCE, VIT.



Dr. V. Ramachandra, Senior Advisor, Ultra Tech Cements, Ltd. Mumbai delivered a lecture on “Special Concrete for Challenging Projects”, on 12th April, 2022 organized by Dr. A. Sofi, Associate Professor, SCE, VIT.



Mr. Thiyagarajan Ganesan, Senior Civil and Structural Engineer Project Lead, Exterran Energy Fze Sharjah, United Arab Emirates delivered a lecture on “Civil and Structural Elements in Oil and Gas Industry” on 13th April 2022 organized by Dr. A. Sofi, Associate Professor, SCE, VIT.



Mr. Hussain Babu D, Assistant Engineering Manager (Geospatial Technologies) Larsen & Toubro, Chennai delivered a lecture on “Application of GIS & Remote Sensing in Civil Engineering: Industry’s Perspective” on 22nd April 2022 organized by Dr. B. Divya Priya, Assistant Professor, SCE, VIT.



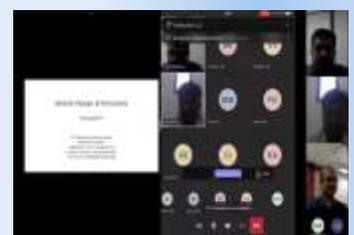
Dr. Abinaya, Pediatrician and Certified Lactation counselor Namakkal, Tamil Nadu, delivered a lecture on “Managing Stress and Anxiety” on 27th April 2022 organized by Dr. B. Divya Priya, Assistant Professor, SCE, VIT.



Dr. S. Ganesh Kumar, Scientist, Geotechnical Engineering Group, CSIR-CBRI, Roorkee delivered a lecture on “Performance Evaluation of Ground Improvement Techniques against Liquefaction and Reliquefaction Hazard based on the Experimental Studies” on 27th April, 2022 organized by Dr. J. Visuvasam, Assistant Professor and Dr. J. Jayaprakash, Professor, SCE, VIT



Dr. Mohammed Parvez Anwar, Director of Studies and Associate Professor, Department of Civil Engineering, University of Nottingham Malaysia Campus, Malaysia delivered a Foreign Expert lecture on “Seismic Design of Structures using Eurocode 8” on 06th June, 2022 organized by Dr. J. Visuvasam, Assistant Professor and Dr. J. Jayaprakash, Professor, SCE, VIT.



ROADSHOW ON PLACEMENT OPPURTUNITIES FOR CIVIL ENGINEERS

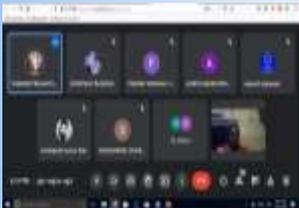
An event on placement and internship opportunities available for B.Tech Civil Engineering, M.Tech Structural Engineering and M.Tech Construction Technology and Management students was organized on 20th April, 2022. The event was inaugurated by HOD – SGE and HOD-EWRE. The welcome address was given by Dr. T. S. Viswanathan, Associate Professor and Prof. John Sushil Packiaraj, Assistant Professor. The address on opportunities available for students was given by Dr. S. Balamurugan, Associate Professor and Dr. J. Visuvasam, Assistant Professor. The felicitation address was given by Dr. A. S. Santhi, Dean, School of Civil Engineering and Dr. S. Karthikeyan, Deputy Director, Career Development Cell. The vote of thanks was delivered by Prof. John Sushil Packiaraj. More than 100 students participated in the event and clarified their doubt on internship and placement.



FACULTY OUTREACH



Dr. B. Srimuruganandam, Professor, SCE, VIT, Vellore has been invited to be an 'International Scientific Advisory Committee' member in the '7th Indian International Conference on Air Quality Management (IICAQM 2022): Measurement, Modelling, Health Risk and Public Policy' jointly organized by IIT Madras, IIT Guwahati, IIT Kharagpur, Australian National University (Australia), University of Bath (UK), Asian Institute of Technology (Thailand), Mahidol University (Thailand) and University of California, Riverside (USA) held during 29th November - 1st December 2022.



Dr. A. Sofi, Associate Professor, SCE, VIT was invited to give a lecture on concrete "Mix Design" organized by ASCE Students chapter, VIT Vellore on 18th April 2022.



Prof. J. Malathy, Assistant Professor, SCE, VIT was nominated to participate in the Five Day Regional Capacity Building Training Program for Academicians of South Region of India Training Program on "Inspiring the Minds for Disaster Risk Reduction" during 17th - 21st May 2022 held at NIRDPR, Hyderabad.



Dr. Mahenthiran, Assistant Professor, SCE, VIT delivered a talk on Floods: Issues and Challenges for Civil Engineers with Modern Techniques" Organized by Department of Civil Engineering, Oriental University, Indore, (Madhya Pradesh) dated on 4th March, 2022.

PUBLICATIONS

Manojkumar, N., Jose, J., Guptha, G., Bhardwaj, A., Srimuruganandam, B. (2022) Mass, composition, and sources of particulate matter in residential and traffic sites of an urban environment, *Environmental Geochemistry and Health* (Available Online). (<https://doi.org/10.1007/s10653-022-01327-4>)

R. Kokilan and B. Divya Priya (2022) A sustainable approach for processing organic waste in India. *Materials Today: Proceedings*, 64: 1069-1074.

Mathe Yeswanth Sai, T. and Jagadeesh, P. (2022) Effect of graphene oxide on the microstructure and hydration characteristics of ultrafine slag cement composites, *Fullerenes, Nanotubes And Carbon Nanostructures*, Taylor Francis Inc. (<https://doi.org/10.1080/1536383X.2022.2068529>)

Ganesh Naidu Gopu and Sofi A (2022) Corrosion Behavior of Fiber-Reinforced Concrete - A Review, *Fibers* 2022, 10, 38. (<https://doi.org/10.3390/fib1005003>)

Jane Regita J., Sofi A (2022) Study of Simply Supported Skew Composite Bridge Decks Under IRC Loading, *Advances in Structural Mechanics and Applications*, 27, 118-137, Book Chapter, Springer.

Ganesh Naidu Gopu, Sofi A, C Brahmareddy, G Sairaman (2022) Experimental investigation of tensile, compression, shear and flexural behaviour of basalt fibre and glass fibre reinforced polymer bars, *Materials Today Proceedings*. (<https://doi.org/10.1016/j.matpr.2022.05>)

Prasanna Venkatesan, R., Ponnambalam, S., Shanmugapriya, T., Gupta, A. (2022), Application of Linear Scheduling in Water Canal Construction with a Comparison of Critical Path Method, *Journal of Construction in Developing Countries*, 27(1), 189-212 (<https://doi.org/10.21315/jcdc2022.27.1.11>).

Prasanna Venkatesan, R., Ravi Arun Kumar, T. (2022). Developing a Schedule Integrated Automated Safety Planning Tool for Residential Construction Projects, *International Journal of Occupational Safety and Ergonomics*. (<https://doi.org/10.1080/10803548.2022.2079825>).

Prasanna Venkatesan, R., Himasaikiran Reddy, D., Gupta, A. (2022), Drivers of sustainable site management for green construction: an Indian construction perspective, *Asian Journal of Civil Engineering*, 23(4), 515-530 (<https://doi.org/10.1007/s42107-022-00439-7>).

Sravani, T., Prasanna Venkatesan, R., Madhumathi, A. (2022). A Comparative LCA study of passive cooling roof materials for a residential building: An Indian Case Study, *Materials Today: Proceedings*. 64(2), 1014-1022 (<https://doi.org/10.1016/j.matpr.2022.05.089>).

PUBLICATIONS

Kurian, R., Kulkarni, K.S., Prasanna Venkatesan, R. (2022). Life Cycle Carbon Emission Assessment for a Residential Building', Lecture Notes in Civil Engineering, Springer Nature, 222, 115-121 (https://doi.org/10.1007/978-981-16-8496-8_14).

Tipraj., Shanmugapriya. T. (2022). A comprehensive analysis on optimization of Sewage sludge ash as a binding material for a sustainable construction practice: A state of the art review. Materials Today: Proceedings. 64(2),1094-1101.

EDITORIAL TEAM

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Prof. J. Malathy (Assistant Professor)

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