



VIT HAS BEEN RANKED AMONG THE TOP 20 UNIVERSITIES IN THE COUNTRY FOR THE 4TH TIME CONSECUTIVELY!

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RANKING
2020

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SCE e-Newsletter

School of Civil Engineering (SCE)

Vision

To be internationally recognized in Civil Engineering for ground - breaking contributions, exceptional leadership, strong commitment to creative problem-solving and professional integrity.

Mission

Pioneering the emerging skills in Civil Engineering.

Preparedness 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, and environmental protection.

To inspire and nurture innovative leaders.

Issue No. 04 April – June 2020



Govt. of India Recognizes VIT as an Institution of Eminence (IoE)

Dean's Message

It is my immense pleasure to welcome you all to view the Fourth Issue of SCE e-Newsletter by School of Civil Engineering (SCE), Vellore Institute of Technology (VIT), Vellore,



TamilNadu, India. This issue brings out the accomplishment of VIT citizens include the students and faculty of SCE that has transpired between April – June 2020.

I am very delighted to inform you that Vellore Institute of Technology has been ranked, by **National Institutional Ranking Framework (NIRF) Ranking**, among the top 20 Universities in the Country for the 4th time consequently.

This issue highlights the active participation and contribution in various outreach activities by faculty members and achievements of undergraduate and postgraduate students. We, from the accomplishment of students, could able to see the students' dedication and their calibre in participating various challenging activities. Moreover, this SCE e-newsletter also focusses on guest lectures organized by faculty members, publications in high quality International and National Journals, and MOU signed.

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 the future.

VIT- A place to learn; A chance to grow



The B.Tech Civil Engineering student Abhishek Sharma (*16BCL0178*) has successfully completed his capstone project under Semester Abroad Programme (SAP) in Universitat Politècnica De Catalunya (UPC), Spain under the guidance of Prof. Marcos Arroyo.

Students' Participation

Public Lecture

The B.Tech Civil Engineering Student N. S. A. Vigneshwar (*16BCL0107*) has given a public lecture (for women workers of recharge structure, farmers, general public, organizers of river rejuvenation project) under the theme of Technical Construction of Groundwater Recharge Structure on the topic of "Managed Aquifer Recharge Structures for Different Aquifers". This was organised by Art of Living's River Rejuvenation project on 4 June 2020 through zoom. He worked under the guidance of Dr. S. Parimala Renganayaki, Associate Professor, SCE, VIT, Vellore, India.



Memorandum of Understanding (MoU)

We, School of Civil Engineering (SCE), Vellore Institute of Technology, Vellore, India have signed Memorandum of Understanding (MoU) with National Environmental Engineering Research Institute (NEERI), Nagpur a Research Institute under the Council of Scientific & Industrial Research (CSIR), Government of India for activities in various fields of Environmental Engineering with a special focus on Air and Noise Pollution, Water and wastewater treatments, Monitoring, treatment & management of industrial effluents, environmental impacts and mitigation measures and find ways to solve community related environmental problems.

The School of Civil Engineering (SCE), Vellore Institute of Technology, Vellore India has signed Memorandum of Understanding (MoU) with Italian National Council for Research- Institute for the Chemistry of Organometallic Compounds (ICCON-CNR) for activities include faculty and student exchange, Joint Research and Publication.

Consultancy Projects

Dr. A. Sofi, Associate Professor and Dr. A. Punitha Kumar, Assistant Professor, SCE, VIT, Vellore, India received a consultancy project entitled 'Analysis and Design of Temple Chariot Shed for Arulmigu Brahmapureswarar Temple, Kanchipuram District' for worth of INR 29,500.

Guest Lecture



Delivered keynote lecture on "Practices for Good Project Management and Project Controls in Construction", by Dr. M. K. Parthasarathy, Joint General Manager & Head – Project Controls, L&T, Srilanka, on 12 May 2020 for ICSET- May 2020 (Organized by Dr. R. Prasanna Venkatesan, Assistant Professor, SCE, VIT, Vellore).

- B. Divya Priya., Dodagoudar, G. R (2020). Modelling the spatial variability of Standard Penetration Test data for Chennai City using kriging and product-sum model. *Geomechanics and Geoengineering*, (<https://doi.org/10.1080/17486025.2019.17078>).
- Sujatha, G., Shanthakumar, S., Chiampo, F (2020). UV Light-Irradiated Photocatalytic Degradation of Coffee Processing Wastewater Using TiO₂ as a Catalyst, *Environments*, 7(6), 7060047 (<https://doi.org/10.3390/environments7060047>).
- Junaid Nabi., Abdul Rahim, A (2020). Employing B-Spline approach in parametric assessment of catenary shaped fabric-formed concrete beams, *Structures*, 27, 474-486.
- Jithin Jose ., B. Srimuruganandam (2020). Application of micro-morphology in physical characterization of urban road dust. *Particuology* (<https://doi.org/10.1016/j.partic.2020.05.002>).
- N. Manojkumar., M. Manish Kumar., Shashank Kiran Somwanshi., M. Monish Raj ., B. Srimuruganandam (2020). Estimation of PM_{2.5} related hospital admissions and its monetary burden in Hyderabad, India, In: S. Saride, B. Umashankar and D. Avirneni (eds) *Advances in Geotechnical and Transportation Engineering, Lecture Notes in Civil Engineering*, 71, 1-10, Springer Nature Singapore. (https://doi.org/10.1007/978-981-15-3662-5_1).
- Dharmil Baldev., Apurv Kumar., Muthukumar, M., Sanjay Kumar Shukla (2020). Hydraulic and Volume Change Characteristics of Compacted Clay Liner Blended with Exfoliated Vermiculite. *International Journal of Environment and Waste Management*, 25(4), 430-440.
- Eleonora Odelli., Thirumalini Selvaraj., Jayashree Lakshmi perumal Vincenzo Palleschi Stefano Legnaioli., Simona Raneri (2020). Pottery Production and trades in south eastern India new insights from alagankulam and Keeladi excavation sites , *Heritage Science* (<https://doi.10.21203/rs.3.rs-20678/v1>).
- George G., Saravanakumar M.P (2020). Fabrication and performance analysis of a low cost, Pt free counter electrode using carbon coated ZnAl layered double hydroxide (C/ZnAl-LDH) for dye sensitized solar cells. *Solar Energy*, 202, 144-154.
- Loganathan P., Mahindrakar A. B (2020). Evaluation of surface temperature and prediction of changes in future projections using quantile to quantile change factor methodology over cauvery river basin-peninsular India. *Indian Journal of Ecology*, 47 (2), 312-315.
- Danish P., Mohan G. G. (2020). Behaviour of self-compacting concrete using different mineral powders additions in ternary blends, *Revista Romana de Materiale/ Romanian Journal of Materials* , 50(2), 232 – 239.
- Shanmugavel D., Selvaraj T., Ramadoss R., Raneri S. (2020). Interaction of a viscous biopolymer from cactus extract with cement paste to produce sustainable concrete. *Construction and Building Materials*, 257, 119585.
- Teja K.V., Meena T. (2020). Performance of ternary blended concrete and binary concrete made with Perlite powder at elevated temperatures, *Jordan Journal of Civil Engineering*, 14(2), 198-209.
- Akansha J., Nidheesh P.V., Gopinath A., Anupama K.V., Suresh Kumar M. (2020). Treatment of dairy industry waste water by combined aerated electrocoagulation and phytoremediation process, *Chemosphere*, (<https://doi.10.1016/j.chemosphere.2020.126652>).
- Jayasingh, S., Selvaraj, T. (2020). Effect of Natural Herbs on Hydrated Phases of Lime Mortar, *Journal of Architectural Engineering*, 26(3), 04020021 ([https://doi.org/10.1061/\(ASCE\)AE.1943-5568.0000420](https://doi.org/10.1061/(ASCE)AE.1943-5568.0000420)).
- Harsha Vardhana Balaji M., Venugopal P. (2020). Cost overrun factors: Exploration from the perspective of civil workers, *International Journal of Advanced Science and Technology*, 29(6), 2241-2245.

Webinar

Dr. B. Divya Priya, Assistant Professor, SCE, VIT, Vellore was invited to deliver online lecture on:



- “Research Avenues, Field Practices and Case Studies in Geotechnical Engineering” organized by Department of Civil Engineering, Government College of Technology, Coimbatore, sponsored by TEQIP III, Govt. of India on 20 June 2020.
- “3D Sub-surface Modelling using field test data and Geostatistical techniques for Chennai City in GEO-ICT Applications for Smart Cities” organized by Department of Civil Engineering, Cambridge Institute of Technology, Bengaluru on 01 June 2020.

Dr. Dillip Kumar Barik, Associate Professor, SCE, VIT, delivered an invited lecture on “Biodiversity: Types, Importance and Conservation Methods” at Ranipet Local Centre of the Institute of Engineers (India) on the occasion of “World Environmental Day” on 05 June 2020.



Dr. A. Sofi, Associate Professor, SCE, VIT, Vellore was invited to deliver a online lecture on “Do’s and Don’ts on Structural Point of View” jointly organized by Ultra Tech Cement limited on 24 April 2020.



Webinar

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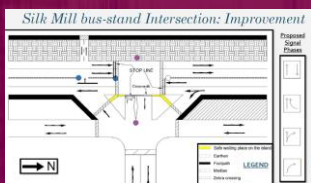
Dr. B. Srimuruganandam, Associate Professor, SCE, VIT, Vellore was invited to deliver a online technical talk titled “Environmental Impact Assessment”, in a Faculty Development Programme on Environmental Engineering organized by Department of Civil Engineering, GMR Institute of Technology, Rajam, Andhra Pradesh, India on 20 May 2020.



Other Related Information



Prof. Dr. J. Jayaprakash, SCE, VIT, Vellore has been appointed as a Member of International Advisory Board for IEM Journal, The Institution of Engineers (IEM), Malaysia.



Dr. P. Sasanka Bhushan, Associate Professor, SCE, VIT, Vellore and his students Ritwik and Lalit have summarized the deficiencies in Pedestrian facilities in Vellore and provided recommendations for improvement as a report to the District Collector.





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