



**Vel Tech**  
Rangarajan Dr. Sagunthala  
R&D Institute of Science and Technology  
(Deemed to be University Est. in 3 of UGC Act, 1956)



# CIVIL BUZZ

## Accreditation & Rankings

- ❖ Ranked 87<sup>th</sup> in Engineering Category by NIRF
- ❖ Accredited by NAAC with Highest grade A++
- ❖ Accredited by NBA under Tier 1 category for 3 Years
- ❖ Ranked in the band '11-50' in Innovation category by NIRF India Rankings 2023, the category erstwhile known as Atal Ranking of Institutions on Innovation Achievements (ARIIA)
- ❖ Ranked in Times Higher Education (THE) Rankings 2023 in Band 801-1000 in the world by THE World University Rankings 2023 in Engineering
- ❖ Ranked in the Band 651-700 in QS Asia University Rankings 2023

## Specific Achievements

- ❖ 76% of faculty members are with doctoral qualification from eminent Institutions like IISc, State University.
- ❖ Faculty members have published 22 research papers (April – June 2023) in Internationally reputed Journals.
- ❖ Filed 2 Indian Patent during April – June 2023

## Department Vision

To impart knowledge and excellence in Civil Engineering with global perspectives to the student community and to make them ethically strong engineers to build the nation.

## Department Mission

- ❖ To produce Civil Engineers of high calibre with advanced technical skills and ethical values to serve the society and the nation.
- ❖ To make the Department as a centre of excellence in the field of Civil Engineering and allied research activities.
- ❖ To provide knowledge base and consultancy services to the community in all areas of Civil Engineering.
- ❖ To promote innovative ideas with original thinking in the minds of budding Engineers to face the future challenges.

CIVIL – News Letter

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Department of Civil Engineering,  
School of Mechanical & Construction

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## ABOUT THE DEPARTMENT

The Department of Civil Engineering was started in the year 2009 and it offers B.Tech. Programme, M.Tech Programme (Structural Engineering and Environmental Engineering), and Ph.D Programme. The Department has 21 faculty members (most of them with Ph.D. qualifications). The department has been accredited by NBA (Tier I). Most of the faculty members are fellow and member of professional bodies in various fields of Civil Engineering covering the areas of concrete, soil mechanics, water resources and remote sensing. Faculty members continuously update their knowledge by attending training programmes at IISc and other premier Institutions. Active participation of the faculty members in research, consultancy services & sponsored research activities help them to interact with industries and demonstrate the application of concepts in field and improve the teaching learning activities of the department.

## HOD'S MESSAGE



**Dr. A. Geetha Selvarani**  
**Professor & Head – Civil Engineering**

Greetings! It is an immense gratification in producing this newsletter-Civil prominence in all the academic related activities and events organized by the Civil Engineering department. I thank the faculty members and students for their incessant support and encouragement throughout the year in all the ways as usual, which is the prime tractive force of the Department. This news letter covers the substantial number of Guest Lectures delivered by national and international Professors and hands on training by industry experts which are more helpful in sharing ideas pertaining to recent trends and knowledge for the benefit of students and faculty members. Further Faculty members input in effective teaching learning, Implementation of active Learning Methods, their research activities, article publication in reputed Journals, patent filing have been reported.



## Newly Introduced Courses



One credit course “Basics of Building Planning and Approval Process” was conducted on 10.04.2023 to 13.04.2023 under the category “Industry/Higher Learning Institute Interaction”. The resource person was Mr. Balaji, Propertier, Ellora Builders, Chennai. Totally 65 students completed this one credit course.

## Activity Based Learning



Model Based Teaching method was implemented in the course “Environmental Engineering” handled by Dr. K Tamilarasan



Model Based Teaching method was implemented in the course “Water Resource and Irrigation Engineering” handled by Mr. S. Baskar



**Model Based Teaching method  
was implemented in the course  
“Design of Steel Structures”  
handled by Dr. S. Samson**



**Focused Listening method  
was implemented in the course  
“Highway Engineering”  
handled by Dr. S. Selvakumar**



**Participative learning method  
was implemented in the course  
“Pavement Engineering”  
handled by Dr. J. Logeshwari**





The 25th Board of Studies meeting was held on 03.06.2023, External members Dr. S. Senthil Selvan, Professor, Department of Civil Engineering, SRM Institute of Technology and Mr. L. Suresh Kumar, Assistant Engineer, Central Public Works Department, Chennai participated in the meeting along with the Internal members and Alumni of our Department. The Discussion was about the VTR UGE 21 Curriculum.

## Academic Audit

The academic audit (AY 2022-2023) for the Department of Civil Engineering was conducted on 19.06.2023. External expert was Dr. K. Saravanan, Professor – Civil Engineering, Vellore Institute of Technology, VIT Chennai Campus, Chennai and Internal Expert was Dr. J. L. Mazer Iqbal, Professor - ECE. The documents were audited in connection with Curriculum Design, Teaching-Learning and Assessment & Evaluation.

## Events Organized for Students



From 06.04.2023 to 08.04.2023, a short term course on "Plaxis 2D Software" was offered by Mr. D. Nagarajan, an expert speaker from the Assistant Engineering Manager, Design (Geotechnical), L& T Constructions, Chennai. The resource persons hands-on-training programme was attended by fourth-year undergraduate students.

## Inplant Training

The following fourth-year undergraduate students were undergone inplant training to the reputed industries / organizations for their Major Project work.

S. No.	Name of the Student	Company Details
1.	SUNIL KUMAR YADAV	Bodhi Holding Pvt. Ltd., Nepal
2.	ANUP OLI	
3.	NIRMAL SUBEDI	
4.	CHATLA SUDHA KIRAN TEJA	Government of India, Central Public Works Department, Chennai
5.	BONDALAPATI PRADEEP KUMAR	
6.	CHILLA AVINASH	
7.	RAM SHARAN YADAV	Government of Nepal, Postal Highway Directorate.
8.	ARBIND KUMAR YADAV	
9.	ROSHAN KUMAR YADAV	
10.	NITISH KUMAR	M/s Brijesh Agarwal-PPIL(JV), Bihar.
11.	PARIKSHIT PRIYADARSHI	
12.	PATAN IMRAN	The Ramco Cements Limited, Andhra Pradesh.
13.	RAVI JAISWAL	Government of Nepal, Department of Roads.
14.	RITESH KUNWAR	

## Inplant Training

S. No.	Name of the Student	Company Details
15.	VIKAS DHANGAR	Krishna Construction Planner & Developer, Indore.
16.	M SELVA KUMAR	Government of India, Ministry of Ports, Shipping & Waterways.
17.	BANDHARAPU RAHUL	Government of India, Central Public Works Department, Chennai.
18.	KOPPANATHULA RAJAMOHAN	
19.	KAVIRI RAJABABU	
20.	ANSHU RAJ	
21.	PRAVEEN KUMAR	M/s Brijesh Agarwal-PPIL(JV), Bihar.
22.	SOYIMYANGERLA N SANGLIR	Vikas Homes Limited, Chennai.
23.	SUJEET DHAKAL	Tanahu Hydropower Limited, Nepal.
24.	MANOJ KUMAR YADAV	Government of Nepal, Postal Highway Directorate.
25.	DILISH KUMAR YADAV	
26.	DILIP KUMAR YADAV	
27.	BAGRACE TYMPUIN	
28.	FLINDER RAPSANG	Public Works Department, Meghalaya.
29.	CHONGTHAM RAJEEVKUMAR SINGH	ABCI Infrastructures Pvt. Ltd., Guwahati.
30.	BIKU NAOREM	
31.	LOUREMBAM ERIC	
32.	PYNSANBORLANG ROBERTS LYNGDOH MAWLONG	Public Works Department, Meghalaya.
33.	WINFIELD MARBANIANG	
34.	GYAN KUMAR RAY	Government of Nepal, Department of Roads.
35.	ANISH SHAH	
36.	AAYUSH KC	ANK-Mahabir J/V, Lalitpur.
37.	ROHIT KUMAR	Bihar State Road development Corporation Limited.
38.	AMRENDRA KUMAR	
39.	SURENDRA KUMAR SAH	
40.	SUBODH KUMAR YADAV	M/s Brijesh Agarwal-PPIL(JV), Bihar.
41.	KEVISEBINO NAGI	Government of India, Central Public Works Department, Chennai.
42.	KEYIGUMLUNGLE IHEILUNG	

## MoUs Signed



**Department of Civil Engineering  
Signed MoU with SanVir  
Associates Pvt. Ltd. on  
22.06.2023**



## Awards & Recognitions

**9 Faculty Members were received Rewards (Cash Incentive) for Publications / Funded Projects / Consultancy / Patents in the CY 2022 on 24.06.2023.**

S. No.	Faculty Name	Designation	Recognition award (Cash Incentive)	Indian Rupees
1.	Dr. S. Samson	Professor	Appreciation for Consultancy	Rs. 3,144
2.	Dr. K. R. Aswin Sidhaarth	Associate Professor	Appreciation for Publication	Rs. 25,000
3.	Dr. M. Vinod Kumar	Associate Professor	Appreciation for Publication	Rs. 60,000
4.	Dr. S. Kandasamy	Associate Professor	Appreciation for Research Proposal and Publication	Rs. 30,417
5.	Dr. J. Logeshwari	Associate Professor	Appreciation for Consultancy	Rs. 3,150
6.	Dr. K. Tamilarasan	Assistant Professor	Appreciation for Publication	Rs. 20,000
7.	Dr. S. Selvakumar	Assistant Professor	Appreciation for Publication	Rs. 15,000
8.	Mr. T. Nelson Ponnudurai	Assistant Professor	Appreciation for Patent	Rs. 5,000
9.	Mr. T. Udhaya Kumar	Assistant Professor	Appreciation for Consultancy	Rs. 9,000



**Dr. J. LOGESHWARI received “Best Paper Award” in International Conference on Core Engineering and Technology, Peri Institute of Technology, Chennai on 4 May 2023.**

## Events Attended

1. Dr. J. Anita Jessie was attended the Professional Development Programme on “RC and PSC Bridges” organized by Midas Research and Development Centre India Pvt. Ltd. during 07.04.2023 to 09.04.2023.
2. Dr. J. Cici Jennifer Raj was attended the Seminar on “3D Concrete Printing” organized by College of Engineering, Guindy on 23.05.2023.
3. Dr. J. Cici Jennifer Raj was attended the Webinar on “Sustainable Materials and Construction Techniques” organized by SRM Madurai College of Engineering and Technology on 11.05.2023.
4. Dr. A. Chithambar Ganesh was attended the Faculty Development Programme on “Smart Materials and Systems” organized by Visvesvaraya Technological University during 29.05.2023 to 02.06.2023.
5. Dr. S. Selvakumar was attended the Webinar on “Green Concrete and Modern Construction Chemical for Energy Efficient Buildings” organized by Indian Chapter of American Concrete Institute on 19.06.2023.

## Journal Publications

1. Pandian, N. G., Selvarani, G., Venugopal, Y., & Murugan, S. (2023, June). A study on buckling behavior of column filled with rubber and graphite powder. In AIP Conference Proceedings (Vol. 2766, No. 1). AIP Publishing.
2. Singh, R., Sisupalan, S., & Gunasekarapandian, N. (2023, June). An experimental investigation of conventional concrete by replacement of M sand with crumb rubber. In AIP Conference Proceedings (Vol. 2766, No. 1). AIP Publishing.
3. Sisubalan, S., Govindaraj, N. K., & Subramanian, A. (2023, June). Experimental study of mechanical properties of interlocking blocks made using GFRG with fly ash. In AIP Conference Proceedings (Vol. 2766, No. 1). AIP Publishing.
4. Venugopal, Y., Sisupalan, S., Pandian, N. G., & Murugan, S. (2023, June). Experimental investigation on biogas recovery and treatment of leachate. In AIP Conference Proceedings (Vol. 2766, No. 1). AIP Publishing.
5. Vinodhini, V., & Sidhaarth, A. (2023, June). An investigation study on automatic crack detection using image processing techniques. In AIP Conference Proceedings (Vol. 2766, No. 1). AIP Publishing.
6. Krishnan, C., Sidhaarth, A., Murugan, S., & Durai, N. P. (2023, June). Experimental investigation on various efficient parameters of AAC blocks with conventional bricks. In AIP Conference Proceedings (Vol. 2766, No. 1). AIP Publishing.

7. Jesusahayaraj, C. J. R., & Muthu, V. K. (2023, June). Assessment of seismic response of RC framed buildings with scrap tyre as the base isolator using nonlinear static push over analysis. In AIP Conference Proceedings (Vol. 2766, No. 1). AIP Publishing.
8. Sridhar, S., Kumar, V., Yamini, Y., & Cheran, C. (2023, June). State-of-the-art review on precast composite sandwich slab panels. In AIP Conference Proceedings (Vol. 2766, No. 1). AIP Publishing.
9. Kumar, U., & Kumar, V. (2023, June). Studies on mechanical properties of GGBS aggregate on geopolymer concrete. In AIP Conference Proceedings (Vol. 2766, No. 1). AIP Publishing.
10. Mahmud, Y., Raj, S. J., & Muthu Vinod Kumar, M. (2023, June). A comparative study on conventional reinforced concrete and prefabricated concrete floor slab systems for mass housing in Ethiopia. In AIP Conference Proceedings (Vol. 2766, No. 1). AIP Publishing.
11. Nigussie, T., Raj, S. J., & Kumar, M. V. (2023, June). The influence of elevated temperature on the strength of concrete. In AIP Conference Proceedings (Vol. 2766, No. 1). AIP Publishing.
12. Fitigu, F. E., Raj, S. J., & Kumar, M. V. (2023, June). Investigation of the major causes of pavement distress in different level of grades. In AIP Conference Proceedings (Vol. 2766, No. 1). AIP Publishing.
13. Syed, S. I., & Selvaraj, K. (2023, June). Experimental investigation on flexural strengthened RC beams using FRP bonding system-A review. In AIP Conference Proceedings (Vol. 2766, No. 1). AIP Publishing.
14. Govindasamy, K., Perumal, T., & Sellamuthu, B. (2023, June). Analysis of hydro geochemical quality in and around Tiruvallur district, Tamil Nadu using geostatistical techniques. In AIP Conference Proceedings (Vol. 2766, No. 1). AIP Publishing.
15. Karuppiah, T., Shankaran, S., & Vincent, G. S. (2023, June). Effluent therapy of electroplating industry through HUASB coupled with dual chambered microbial fuel cell. In AIP Conference Proceedings (Vol. 2766, No. 1). AIP Publishing.
16. Sellamuthu, B., Ramachandran, A. S. K., & Govindasamy, K. (2023, June). Extraction of heavy metal ion from industrial wastewater by using bio-nanomaterial composite. In AIP Conference Proceedings (Vol. 2766, No. 1). AIP Publishing.
17. Mahalakshmi, M., Nivedha, N., & Yamini, Y. (2023, June). A study on equipment management in construction site. In AIP Conference Proceedings (Vol. 2766, No. 1). AIP Publishing.



## Journal Publications

18. Ganesh, A. C., Kumar, P. S., Kapilan, S., Kumar, A., Basha, S. N., & Tejaeswar, V. (2023). Effect of alkaline activator solution over GGBS based concrete under ambient curing. *Materials Today: Proceedings*.
19. Loganathan, P., Raju, H. P., Margret, A. L., Ragavan, V., & Ganesh, A. C. (2023). Extraction of Heavy Metals from Soil Affected by Landfill Leachate through Constructed Wetlands: A Phytoremediation Approach to Rejuvenating the Contaminated Environment. In *E3S Web of Conferences* (Vol. 405, p. 01001). EDP Sciences.
20. Vathani, T. A., & Logeshwari, J. (2023). A novel approach to utilize recycled concrete aggregates as landfill liner. *Waste Management Bulletin*, 1(1), 39-48.
21. Vathani, A., & Logeshwari, L. (2023, June). Sustainability in using recycled aggregate. In *AIP Conference Proceedings* (Vol. 2766, No. 1). AIP Publishing.
22. Razan Alzein, Vinod Kumar M (2023, June). Basal Fibers in Geopolymer Composites: Advanced Thermal, Mechanical and Flexural Review. In *AIP Conference Proceedings* (Vol. 2766, No. 1). AIP Publishing.

## Funded Projects

## Conference Presentation

1. Dr. A. Chithambar Ganesh (2023, June). Dr. D.Y. Patil Institute of Technology, Pune. International Conference on Sustainable Technologies in Civil and Environmental Engineering 2023 (ICSTCE-2023).

## Patents

1. Dr. J. Cici Jennifer Raj, Published Indian Patent (202341039495) "Sand Tyre Crumbs Geo Bags Based Seismic Isolation System" on June 2023.
2. Dr. M. Vinod Kumar, Filed Indian Patent "Novel fibre shape for effective bonding between fibres and concrete matrix" on June 2023.

## Journal Publications

1. Vathani, T. A., & Logeshwari, J. (2023). A novel approach to utilize recycled concrete aggregates as landfill liner. *Waste Management Bulletin*, 1(1), 39-48.
2. Vathani, A., & Logeshwari, L. (2023, June). Sustainability in using recycled aggregate. In *AIP Conference Proceedings* (Vol. 2766, No. 1). AIP Publishing.
3. Vinodhini, V., & Sidhaarth, A. (2023, June). An investigation study on automatic crack detection using image processing techniques. In *AIP Conference Proceedings* (Vol. 2766, No. 1). AIP Publishing.
4. Karuppiah, T., Shankaran, S., & Vincent, G. S. (2023, June). Effluent therapy of electroplating industry through HUASB coupled with dual chambered microbial fuel cell. In *AIP Conference Proceedings* (Vol. 2766, No. 1). AIP Publishing.

## Conference Presentation

1. Irfan Ahmed. M, Dr. M. Vinod Kumar. Strength, Durability of Microstructural Characteristics of fibre reinforced geopolymer concrete with treated foundry sand International Conference on Core Engineering & Technology organized by Peri Institute of Technology, Chennai. 4<sup>th</sup> May, 2023.
2. P. Sathish Kumar, Dr. M. Vinod Kumar. Effects of Double Headed Nylon fibres in Concrete properties. International Conference on Core Engineering & Technology organized by Peri Institute of Technology, Chennai. 4<sup>th</sup> May, 2023
3. Mohamed Kaleemullah. S.S, Dr. J. Logeshwari. Experimental Investigation on light weight M-sand residue concrete in sandwich wall panel International Conference on Core Engineering & Technology organized by Peri Institute of Technology, Chennai. 4<sup>th</sup> May, 2023

## Placement



**Surendra Kumar Sah**  
**Ramky Infrastructure, Pvt. Ltd.**  
**CTC – 2.4 LPA**



**Naveen Reddy Akuri**  
**Ramky Infrastructure, Pvt. Ltd.**  
**CTC – 2.4 LPA**

## Exchange Program

Axel Phelippeau from ESTACA, Engineering School, France came to Vel Tech University Civil Engineering department and studied two courses (Building Drawing and Highway Engineering) in his Undergraduate programme through students exchange programme.





## Editorial Board

### Editor-in-Chief:

Dr. A. Geetha Selvarani – Prof. & Head / Civil Engineering

### Editors:

### Faculty Members:

Dr. M. Vinod Kumar – Professor / Civil Engineering

Dr. K. Tamilarasan – Assistant Professor / Civil Engineering

### Student Members:

Hendok (VTU 11078) – IV year / Civil Engineering

Polimera Akhil (VTU 17900) – III year / Civil Engineering

V. Ramalingam (VTU 24031) – II year / Civil Engineering

## Contact Us

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