



MOMENTS 2020

JULY 2020 - DECEMBER 2020

DEPARTMENT OF CIVIL ENGINEERING NEWSLETTER



OUR FOUNDER
Late Dr. K. C. G. Verghese
(1940 – 2016)

EXECUTIVE COMMITTEE

CONVENER

Dr. V. Preethi,
HoD, Civil Dept.,

EXECUTIVE COMMITTEE MEMBER

Dr. P.S. Joanna,
Professor, Civil Dept.,

Dr. Shalini R Nair,
Assistant Prof., Civil Dept.,

Aravinda Debbarma, 4th year B.Tech.,

Pranav Patil, 4th year B.Tech.,

Dear Students and Staff!

The Department of Civil Engineering of HINDUSTAN INSTITUTE OF TECHNOLOGY & SCIENCE, Padur is delighted to bring out this news letter for the staff and student community.

Collaboration between the institute and industry is vital for teaching and learning of any engineering program. By affirming this truth, the Department of Civil Engineering has been organizing a series of programs like International technical seminars, research symposium, talks on ongoing research activities and other related topics from distinguished experts to give our students a practical insight into Civil Engineering,

As a first step, we bring out the details of the events that were hosted in the Civil Engineering, department since January 2020 to June 2020.

We thank our Management, Vice-Chancellor, Dean, HOD, staff, and students for their sincere support and cooperation in bringing out this news letter successfully. Have a nice reading.

With regards,
Editor - Department of Civil Engineering.

ABOUT THE DEPARTMENT

The Civil Engineering Department is one of the oldest departments in Hindustan Institute of Technology & Science started in 1985. It offers one under graduate programme with three specializations and three post graduate programmes in Structural Engineering, Construction Engineering and Environmental Engineering. The department has highly qualified and well experienced faculty who are involved in research in the areas of Structural Engineering, Environmental Engineering, Transportation Engineering, Water Resources Management etc. The department has successfully completed many research projects funded by government agencies and has very close interaction with many leading industries and research laboratories in areas relating to green materials, health monitoring, construction management etc.

VISION

To be a globally competent Premier Academic Centre for quality education and research in the diverse areas of Civil Engineering with social commitment

MISSION

- M1. To inculcate comprehensive principles to produce highly competent and technologically capable professional engineers, academicians and entrepreneurs.
- M2. To impart quality education with strong emphasis on social commitment and sustainability, with ethical standards.
- M3. To provide a scholastic environment for state-of the-art research.
- M4. To conduct Knowledge transfer programs to enhance technical knowledge.

**“THE ROAD TO SUCCESS IS
ALWAYS UNDER
CONSTRUCTION”**

PROGRAMME EDUCATIONAL OBJECTIVES

PE01: The graduates will become experts in Planning, Designing and executing any infrastructural Development project.

PEO 2: The Graduates will be able to learn and adopt new technologies evolving in the field of Civil Engineering.

PEO 3: The Graduates will become globally competent Civil Engineering Professionals.

PROGRAMME OUTCOMES

PO 1: To apply the knowledge of Mathematics, Science and Engineering fundamentals to solve complex Civil Engineering Problems.

PO 2: Graduate will attain the ability to identify, formulate, analyze and find suitable solutions for complex Engineering problems using basic principles of Science and Engineering.

PO 3: Graduates will be able to design Civil Engineering system Components and Processes considering public health, safety and Environmental issues to meet the needs of the society.

PO 4: Graduates will be able to conduct investigations of complex problems in Civil Engineering using Research based knowledge and Research.

PO 5: Graduate will exhibits skills to use modern Engineering tools, software and equipment to analyze various problems in Civil Engineering Domain.

PO 6: To practice as an efficient Civil Engineer to assess and manage the societal needs.

PO 7: Graduate will understand the impact of Engineering solutions based on the Sustainable Concepts.

PO 8: Graduate will be aware of their Professional and ethical responsibilities to the society.

PO 9: Graduate will be able to work individually or as a team member or leader in uniform and multidisciplinary settings.

PO 10: Graduate will be able to communicate effectively in both verbal and written forms.

PO 11: Graduate will have an understanding of Engineering and Management Principles and apply this to one's own work, as a member and a leader in a team, to manage projects.

PO 12: Graduate will develop confidence for self education and ability for life long learning.

PAPER PUBLICATION

1. V. T. Neelmudiyon, Preethi Vijayarangan, S.Govindarajan, A Study on Conjunctive use of Green and Blue Water in Deevanur Tank Irrigated Area, *International journal of advanced research in engineering & technology* 11(9):272- 281, 2020.
2. Sekar, S., Lee, S., Kim, D., Preethi, V., Kalirajan, K., & Sutha, S. et al. (2020). Biomass activated carbon-decorated spherical β -Ni(OH)₂ nanoparticles for enhanced hydrogen production from sulphide wastewater. *Journal Of Water Process Engineering*, 38, 101669. doi: 10.1016/j.jwpe.2020.101669
3. Ganesan, C; Joanna, P S; Singh, Dalbir. (2020). Strain Rate Effect on Progressive Failure and Tensile Behaviour of Kevlar Epoxy Composites. *International Journal Vehicle Structures & Systems*, 12(4), 417-420. doi: 10.4273/ijvss.12.4.12
4. Sharmila, S., Parvati, T.S. (2020) Experimental study on manufacturing of bricks using ewaste for green environment, *Journal of Green Engineering*, 10(10), pp. 8401–8413
5. Cruze, D., Gladston, H., Farsangi, E., Loganathan, S., Dharmaraj, T., & Solomon, S. (2020). Development of a Multiple Coil Magneto-Rheological Smart Damper to Improve the Seismic Resilience of Building Structures. *The Open Civil Engineering Journal*, 14(1), pp. 78-93.
6. Ravikumar P, Abhinav Bhandari, Joshua Paul Verghese, Abhilesh N Jain, Tika Devi Rai, Jessy Rooby, Sundararajan T. “Mechanical Properties of High Calcium Flyash-GGBFS Geopolymer Paste, Mortar and the Effect of Glass Fibre Mesh on the Strength of Geopolymer Mortar Tile. *International Journal of Innovative Technology and Exploring Engineering (IJITEE)*, ISSN: 2278–3075 (Online), Volume-9 Issue-6, April 2020, Page No.722 -729.
7. Raja, M., Preethi, V., Pal, Y., Nalajala, N., & Gopinath, C. (2020). Photocatalytic Hydrogen Production from H₂S using Nanostructured CNT blended CdZnS/Fe₂O₃ Thin Film on Glass Substrate. *Journal Of Physics: Conference Series*, 1495(1), 012035. doi: 10.1088/1742-6596/1495/1/012035
8. Chinnasamy, M., Ajithkumar, R., Singh, A., Yangzom, D., Parvati, T., & Joanna, P. (2020). Comparative study on the behaviour of textile reinforced concrete slab with engineered cementitious composite slab. *Materials Today: Proceedings*, 33, 1175-1180. doi: 10.1016/j.matpr.2020.07.529

PAPER PUBLICATION

9. Nair, S., Rooby, J., & Branesh, R. (2020). A Comparative Study of Aerodynamic Coefficients on Tall Structures using Experimental Studies with International Codes and Standards. *IOP Conference Series: Materials Science And Engineering*, 936(1), 012054. doi: 10.1088/1757-899x/936/1/012054
10. Joanna, P., Parvati, T., Rooby, J., & Preetha, R. (2020). A study on the flexural behavior of sustainable concrete beams with high volume fly ash. *Materials Today: Proceedings*, 33, 1149-1157. doi: 10.1016/j.matpr.2020.07.343
11. Jini, D., & Sharmila, S. (2020). Green synthesis of silver nanoparticles from *Allium cepa* and its in vitro antidiabetic activity. *Materials Today: Proceedings*, 22, 432-438. doi: 10.1016/j.matpr.2019.07.672
12. Banerjee, S., Mandal, A., & Rooby, J. (2020). Performance of Concrete with Partial Replacement of Coarse Aggregate with Tyre Chipped Rubber. *Lecture Notes In Civil Engineering*, 665-674. doi: 10.1007/978-981-15-6463-5_65



HINDUSTAN

INSTITUTE OF TECHNOLOGY & SCIENCE
(DEEMED TO BE UNIVERSITY)
CHENNAI



Edited and Published
Department of Civil Engineering
Hindustan Institute of Technology and Science
Padur - 603103
Visit : hindustanuniv.ac.in