



**HINDUSTAN**  
INSTITUTE OF TECHNOLOGY & SCIENCE  
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# SHRISHTI

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## NEWS LETTER

SEPTEMBER 2024

"The world is but a canvas to our imagination."

### **DEPARTMENT OF CIVIL ENGINEERING**





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## **PROGRAMMES OFFERED BY THE DEPARTMENT**

- ✦ **B. Tech. Civil Engineering**
- ✦ **M. Tech. Structural Engineering and Construction Management**
- ✦ **M. Tech. Sustainable Environmental Engineering**
- ✦ **Ph.D. Civil Engineering**



## FACILITIES IN THE DEPARTMENT



**Survey Lab**



**Environmental Engineering Lab**



**Hydraulic Engineering Lab**



**Structural Engineering Lab**



**Geotechnical Engineering Lab**



**Renewable Energy Lab**





**Transportation Engineering Lab**



**Strength of Materials Lab**



**Construction Materials Lab**



**Civil Design Centre**

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## DEPARTMENT EVENTS



Mr. Samson Suresh, Managing Director, Rayor Group, Chennai and Dubai, (1990-1994 Civil Alumni) delivered an Alumni lecture series talk on “Water Proofing of Concrete Structures”, on 30<sup>th</sup> sept, 2024.





**FACULTY ACHIEVEMENTS**



Dr. Daniel C,  
Winner for Nano  
Hackathon  
organised by  
Meity and IIT  
Delhi INUP i2i on  
10.08.2024

Mr. Avinash, secured  
First Place in the Draft  
Hunt event, Technical  
Symposium Vivanta'24  
held on 04.10.2024 &  
05.10.2024 at KCG  
College of Technology.



## INDUSTRIAL VISITS



Industrial Visit to Chennai Metro Rail Limited Casting Yard, Semmanchery, Chennai on 27th August 2024. The main objective of this visit is to understand the construction process of U and I girder casting of Chennai metro projects. The industrial visit to Chennai Metro Rail Limited's casting yard provided an insightful experience into the advanced techniques employed in the construction of metro infrastructure. We observed the process of casting I and U girders, crucial components for elevated metro rail tracks. The contractor, Larsen & Toubro Limited, demonstrated precision in the mixing of materials, mold preparation, and curing to ensure structural integrity and durability.

The site showcased state-of-the-art equipment for handling and quality checking, ensuring the girders meet stringent safety standards. Dr. Samuel J and Dr. Daniel C guided students in understanding the practical applications of theoretical concepts learned in class. This visit enriched our knowledge of large-scale infrastructure projects and their role in urban development





Industrial Visit to Interarch Building Products Pvt. Ltd, SIPCOT, Irungattukottai, Sriperumbudur on 11th September 2024. The main objective of this visit is to understand the construction process in the super structure and understand the pre-engineered building. To learn and understand the precaution & safety at manufacturing steel cross section. Mr. Subodh Kumar Sharma, Vice President, Tamil Nadu and his Human resource team welcomed our students and faculty. The safety instructions were shared and safety cap were provided to all the students. The vice president explained the whole manufacturing process and logistics. The unit showcased advanced machinery and techniques used for fabricating steel structures, including cutting, welding, and coating processes. We observed the efficient assembly line where pre-designed components were fabricated with precision to ensure easy on-site installation. The engineers explained the cost-effectiveness, durability, and time-saving benefits of PEB technology over conventional construction methods. Safety protocols and quality control measures were strictly adhered to, ensuring high standards in the manufacturing process. The visit was an enriching experience that enhanced our understanding of how innovative technologies are revolutionizing the construction industry



## FACULTY PUBLICATIONS

<b>Name of the Author(s)</b>	<b>Title</b>	<b>Name of the Journal</b>	<b>Publication Details</b>
Daniel C, Nedunchezian Krishnaraju, Balaji Ramalingam,	Development of single and multi-coil MR Damper subjected to cyclic loading for structural vibration control,	Advances in Civil and Architectural Engineering	15 (29), 2024, pp. 106-119
Mehna Najeem, Daniel C	Sustainable clay bricks incorporating textile sludge, quarry dust, lime, and GGBS: an investigation of strength parameters	Materia	29(3), 24
Daniel C, Balaji Ramalingam, Nedunchezian Krishnaraju	Comparison of single and Multi-Coil Self-Powered MR Damper Subjected to Cyclic Loading for Structural Vibration Control	Research on Engineering Structures and Materials	119,2024



## STUDENT PUBLICATIONS

<b>Name of the Author(s)</b>	<b>Title</b>	<b>Name of the Journal</b>	<b>Publication Details</b>
Chandan K, Daniel C, Anuroop P, S. Vivekananda Sharma, Arunraj E, Hemalatha G	Optimal positioning and distribution of magnetorheological damper	Research on Engineering Structures and Materials	2024, pp. 1-18.





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