



SHALINI R NAIR

Assistant Professor (SS),
Department of Civil Engineering
Hindustan Institute of Technology and Science

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Teaching & Industrial Experience: 7 Years

Specialization: Computer Aided Structural Engineering

Research area:

Health Monitoring of Structures/Bluff body Aerodynamics/Tall Structures,
NDT of Structural Elements/Static and Dynamic Analysis of Structures &
Structural Elements

ACADEMIC PROFILE

Teaching Expertise: Intelligent Buildings, Building Automation, Strength of Materials ,Structural Analysis, Engineering Mechanics, Environmental Science.

RESEARCH AND STUDENT PROJECTS

- Mobile Water Reclamator (Purification of rainwater)
- Non-Destructive Testing on an Existing Building
- Initial Health Monitoring of RCC Bridge Using Non-Destructive Testing.
- Predictive Model for Wind Response – High Rise Buildings
- Experimental investigation of Aerodynamic properties of high-rise buildings.
- Aerodynamic Database for Tall Structures

NOTABLE ACHIEVEMENTS

- Received best paper award in theme of “Tall Buildings” ,in International conference on 'Materials, Mechanics and Structures', July 2020, NIT Calicut.
- Recognition on Teachers day for being one among top ten performers – September 2019 – Hindustan Institute of Technology and Science, Chennai.
- Filed a Patent "Aerodynamic Database": Published on 11.05.2018
- Best Teacher Award – April 2018 – Hindustan Institute of Technology and Science, Chennai.
- Media presence after completing project "Water Reclamator" - 2015
(Deccan Chronicle, Hindu (for innovative product development) New Indian Express - November 16,2015 – “Sparkling Water from waste”,Deccan Chronicle – October 3, 2015 – “Device to make stagnated flood water usable” TV – News nation – 20th October (3:30PM) Radio FM – Chennai Live 104.8 – October 2015

PUBLICATION

Journal Publication:

- ❖ Response of Tall Structures Subjected to Constant and Varying Wind Velocity, International Journal of Civil Engineering and Technology (IJCIET), Volume 10, Issue 12, (December 2019)
- ❖ Application Of Autonomous Robots For Health Monitoring Of Structures: A Review,

International Journal of Mechanical and Production Engineering Research and Development, Vol:8(6) pp 69-74 ,2018.

- ❖ A solution to enhance the efficiency of CFD analysis results for real time usage, International Journal of Civil Engineering and Technology (IJCIET) Volume 9, Issue 4, April 2018, pp. 1237–1245, Article ID: IJCIET_09_04_138"
- ❖ Experimental validation of a new prototype for bridge to resist aerodynamic forces", International Journal of Civil Engineering and Technology (IJCIET) Volume 9, Issue 4, April 2018, pp. 1237–1245, Article ID: IJCIET_09_04_138,2018.
- ❖ "Nature's Gift: Study on Biologically Inspired Scenario for Construction Industry", IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE) e-ISSN: 2278 1684,p-ISSN: 2320-334X, Volume 13, Issue 3, Ver. I (May- Jun. 2016)
- ❖ "Study and Comparison of Aerodynamic Forces on an Aircraft and Suspension Bridge", IOSR Journal of Engineering (IOSRJEN) www.iosrjen.org ISSN (e): 2250 3021, ISSN (p): 2278-8719 Vol. 04, Issue 04 (April. 2014), ||V5|| PP 43-46"

Conference Publication:

- ❖ A Comparative Study of Aerodynamic Coefficients on Tall Structures using Experimental Studies with International Codes and Standards. International conference on 'Materials, Mechanics and Structures',-July_2020, NIT Calicut.
- ❖ A solution to enhance the efficiency of CFD analysis results for real time usage. International Conference on Mathematical Modelling and Scientific Computing. (ICMMSC 2018) ,IIT, Indore.
- ❖ Initial Health monitoring of RCC Bridge using non-destructive testing. International conference on sustainable environment & energy (ICSEE 2016), HITS,Chennai.