Mr. Indrajeet M. Jain

Assistant Professor, Department of Civil Engineering

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OVERVIEW:

Qualifications: **Ph. D. (Pursuing),** M.E. Civil (Structural Engineering), M.E. Civil (Town & Country Planning), B.E. Civil, DCE Civil
Experience: Teaching -26 years
Date of Joining STES: 24/08/2018
Skills and Proficiencies: ETABS Software

SIGNIFICANT ACHIEVEMENTS:

- **Best Paper Award**: International Conference on Future Intelligence Science and Technology, Malaysia
- **National Excellent Award**: Best Professor in Civil Engineering Studies in 2019
- **Best Professor Award**: Savitribai Phule Award for Best Teacher in Dec 2022
- **Convener:** International conference on Recent Trends in Civil and Structural Engineering
- **SPPU Rank 1:** Pune University Rank 1 in M.E. Civil (Structural Engg) in A.Y. 2008-2009

AREA OF EXPERTISE /RESEARCH INTERESTS:

- Special Concrete, Structural Dynamics

NUMBER OF STUDENTS GUIDED:

- PG – 03, UG – 48

RESEARCH PULICATIONS:

Scopus/ SCI	04
International Journal	13
Conference	04
h-index	04
i10 index	02

https://scholar.google.co.in/citations?user=8U4v-XkAAAAJ&hl=en

https://orcid.org/0000-0002-0507-9876

RESEARCH WORK:

Ph.d. Work

The design of super-tall and distinctively shaped buildings encounters challenges in optimizing lateral load-resisting systems to ensure stability, efficiency, and sustainability. Current research predominantly emphasizes steel structures, resulting in a lack of comprehension regarding concrete structures with outriggers. Moreover, discrepancies in identifying the optimal position and number of outriggers along with limited research on the influence of building plan shapes hinder standardized design practices. Addressing these gaps is essential for minimizing expenses, enhancing structural efficiency, and ensure safer, more sustainable designs of tall buildings.

In my research, worked on objectives of the present investigation are to Investigate and identify the optimal position of outriggers along the height of a tall building to enhance lateral load resistance and also compare the effect of outrigger placement in tall buildings with different plan shapes.

The findings contribute significantly to the existing body of knowledge on lateral load-resisting systems, offering novel insights into the strategic placement and configuration of outriggers for achieving structural efficiency.
The research was conducted under the guidance of Dr. R.S. Londhe, Government College of Engineering, Aurangabad-Chhatrapati Shambhajinagar, Maharashtra.

PATENTS GRANDED/PUBLISHED:

- Smart Elevator door system with optimum elevator car door response to improve elevator scheduling.Patent Application No:202321067902A, publication date : 24/11/2023

RESOURCE PERSON TO INDUSTRY/ACADEMIA:

- Distinguished Speaker on topic **"Next Generation Concrete"** for three days online FDP on " Recent Advancement in Civil Engineering (RACE-2024) held 28-30 August 2024 organised by Zeal Polytechnic, Pune, Maharashtra.
- Resource Person for online webinar on "**Career Opportunities in Civil Engineering**" ACS college of Engineering, Bangluru, Karnataka on 18th Dec.2020
- Resource Person for Three Day Train the Trainer on "**Structural Analysis-I**" at Sinhgad Academy of Engineering, Pune on 12-15 December 2019.
- Resource Person for Three Day Train the Trainer on "**Strength of Materials**" at Sinhgad College of Engineering, Pune on 5th September 2019.
- Resource Person for Three Day Train the Trainer on "**Structural Design I (Steel Structures)**" at SITS, Pune on 5- 10 June 2017.
- Resource Person for Two day National level Workshop on "**Analysis of Tall Building by ETABS software**" at SITS in association with ROBO Kart and Innovation cell IITBombay on 12- 13 January 2017.
- Resource Person for Two Day Workshop on "**Effective Teaching Methodology in Engineering Mechanics**" at SITS sponsored by SPPU on 5- 6 January 2017.
- Delivered a guest Lecture on "Design of Weeded Plate Girder" at PVPIT Pune on 09/09/2021.

SUBJECTS TAUGHT:

- Design of Reinforced Concrete Structures
- Design of Steel Structures
- Structural Analysis
- Mechanics of Structure
- Concrete Technology
- Engineering Mechanics
- Urban Housing and Infrastructure Planning (ATP Honours)

FDP/STTP/SDP/WORKSHOPS ORGANIZED AS A COORDINATOR:

- Coordinator for 40 Hours student training program on "***Building planning by AutoCAD***" held at SITS under MoU with Hitesh Lahoti consultant and CESA Pune from 14 Sept 2023
- Convener for three day workshop on " ***Water Treatment plant Design***" held at SITS under MoU with iNODE Pune on 13- 15 Dec 2021
- Convener for one week workshop on "**QCAD**" held SITS in association with IIT Spoken Tutorial Bombay on 9 -13 May 2020
- Coordinator for Two Day National level Workshop on *"**Analysis of Tall Building by ETABS software***" at SITS in association with ROBO Kart and Innovation cell IIT Bombay on 12- 13 January 2017
- Coordinator for Two Day Workshop on *"**Effective Teaching Methodology in Engineering Mechanics**"* at SITS sponsored by SPPU on 5- 6 January 2017

CONFERENCES ATTENDED:

- International Conference on UKIERI concrete congress - ***Concrete Research Driving Profit and Sustainability***," 2-5 November 2015, NIT, Jalandhar, Punjab, India
- International Conference on UKIERI concrete congress – ***Advances in Concrete Technology, Materials & Construction Practices*** (CTSM 2016), 22-24 June 2016, Goa Engineering College, Goa India.
- National Conference on ***Innovative World of Structure Engineering*** (NCIWSE-2019), 21 – 22 December, 2019, Government College of Engineering, Aurangabad.
- National Conference on ***Smarter Cities – India 2015***: Smarter Solutions for a Better Tomorrow (SCI – 2015) 8 -9 June 2015, Sinhgad College of Engineering, Pune

FDP/STTP/SDP ATTENDED:

- TEQIP/AICTE/ISTE sponsored FDP -11
- Spoken Tutorial IIT Bombay sponsored FDP -01
- Others -7

RESPONSIBILITIES HANDLED AT STES/SCOE/DEPT:

Department Level (CIVIL)

- Lab In charge for Transportation Engineering Laboratory, Teacher Guardian.
- Departmental SE INSEM Committee Coordinator
- Departmental Website Coordinator

DECLARATION:

I hereby declare that all the above information furnished by me are true to the best of my knowledge.

Date: / / 2024 Signature