

RESUME

ABHIJEET VILAS SUTAR

***M. Tech Civil – Structural Engineering
(Pursuing Ph.D.)***

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Career Objective:

To utilize my academic expertise, research capabilities, and passion for teaching to inspire and guide students, while contributing to the advancement of knowledge and the institutional growth as an Assistant Professor.

Educational Qualifications:

EXAM	ACADAMIC YEAR	INSTITUTION	CGPA/PERCENTAGE
Ph.D.	2021- Present	WALCHAND COLLEGE OF ENGINEERING	Thesis Submission Phase
M.TECH	2018-20	WALCHAND COLLEGE OF ENGINEERING	9.37
B.TECH	2014-17	COLLEGE OF ENGINEERING PUNE	8.17
DIPLOMA (C.E)	2011-2014	WALCHAND COLLEGE OF ENGINEERING	92.39%
S.S.C	2011	SAWARKAR PRATISTHAN, VISHRAMBAG SANGLI	91.82%

Significant Projects:

- Ph.D. Project - **Effect of Track-Bridge Interactions on Steel Girder Railway Bridge Subjected to High-Speed Train Loading.**
- M.Tech. Project- **Structural assessment and retrofit of a historic railway bridge under high speed train loading using SHM technique**
- B.TECH Project- **Lightweight geo material.** (Use of EPS beads and polypropylene fibers in fly ash mix.)
- Diploma Project-**Rehabilitation of building-maintenance** and strengthening of an old building by using advance techniques.

Area of Interest:

Finite Element Analysis, Structural Health Monitoring, Bridge Engineering, High speed trains, Railway Engineering.

Research paper:

Sutar, A., & Tande, S. (2024). **Comparison of interaction study between the double channel and Y-shaped railway sleeper tracks on steel girder railway bridge.** *Journal of Building Pathology and Rehabilitation*, 9(2), 150. <https://doi.org/10.1007/s41024-024-00509-0> (ESCI and Scopus Indexed)(Q2)

Sutar, A., & Tande, S. (2024). **Effect of H-beam and double channel sleeper spacing and positioning on steel girder railway bridge using FEM.** *Innovative Infrastructure Solutions*, 9(12), 479. <https://doi.org/10.1007/s41062-024-01795-w> (ESCI and Scopus Indexed)(Q2)

Conference paper:

Sutar, A., & Tande, S. (2025, May). **Significance of railway sleeper shape, spacing and configurations in railway industry.** In *AIP Conference Proceedings* (Vol. 3305, No. 1, p. 020022). AIP Publishing LLC. (Scopus Indexed)

Sutar, A., & Tande, S. **Assessment of the Mechanical Characteristics of an Old Steel Girder Railway Bridge,** In *AIP Conference Proceedings* (Under Publication) (Scopus Indexed)

Tande, S., Sutar A., & Hivarekar S. **Evaluation of Lateral Response in Non-Ballasted Steel Girder Railway Bridge with Y-Shaped Sleeper Track.** (Under Publication) (Scopus Indexed)

Kadam R. S., Sutar A. V. and Kadam S. B. (2019). “ **Review of SHM Technique for assessment and Retrofit of An Existing Railway Steel Bridge: A need of Time**” International Conference on Engineering, Mathematical and Computational Intelligence (ICEMCI) December 21-23, 2019, Jabalpur India.

Computer Skills / Knowledge of Software :

- MIDAS- CIVIL
- Etabs,
- SAP,
- Autocad 2D-3D, Google sketchup
- MS Office – Word , Power point, Excel

Job offerings :

- Section engineer at **MAHARASHTRA METRO RAIL CORPORATION LTD.**
- Quality engineer at **Shapoorji Pallonji**

Certifications :

- Completed “**30 Hours Basic Course on Design and Construction Aspects of Bridges**” organized by the Indian Institute of Bridge Engineers and Sinhgad College of Engineering, Pune
- Completed “ **One week FDP on Emerging Trends in Research Article Writing.**” organized by the REST society for Research International.
- Participated in **IP Awareness/ training program** organized by IP office India under NIPAM
- Completed workshop on ‘**Condition Survey, Monitoring and Rehabilitation of Multistoried building,**’ by Ultra Tech cement Pvt. Ltd
- Completed workshop on ‘**Case study on Condition assessment of existing RCC structure using infra-red technology attached with UMV/Drone**’ by Ultratech cement Ltd.
- Completed online workshop on ‘**Nondestructive testing and evaluation of structures**’ by Ultratech cement Ltd.
- Successfully completed 1 days’ workshop on ‘**Recent advances in bridge engineering**’
- Participated in India’s Biggest Civil Bridge Design Contest

Workshops & Seminars Conducted :

- Coordinated and conducted a session on the topic, “**Understanding research : A research scholars perspective**” in a one-day seminar conducted by the Department of Civil Engineering at Walchand College of Engineering Sangli on 21st January 2023
- Coordinated and conducted a session on the topic, ‘**Effective Research Paper Writing.**’ in a one-day seminar conducted by the Department of Applied Mechanics at Walchand College of Engineering Sangli on 16th June 2023

Scholarships/Awards/Significant Achievements :

- **Reviewer at Journal of Civil Structural Health Monitoring by Springer (Q1, SCIE)**
- Award of **3rd topper for MSBTE (Polytechnic) Exams** in Civil Engineering.
- Walchand college of engineering sangli Award of endowment prize/ scholarship for standing first among obc/vjnt in TY diploma
- Walchand college of engineering sangli Award of endowment prize/ scholarship for securing highest number of marks in “ Civil Engg Building desing and drawing”
- Walchand college of engineering sangli Award of endowment prize/ scholarship for securing highest number of marks in “ Irrigation engineering “
- Matoshree Indirabai Kulkarni memorial award under engineers and archiect’s association sangli.



Abhijeet V. Sutar