



Dr. Vishvas Shamrao Patil

(ME Structures, PhD)

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**Teaching
experience
(UG and PG)** 23 Years

Field of specialization Structural engineering

PhD Topic Probabilistic based seismic performance evaluation of existing reinforced concrete building

**Present
Organization** Associate Professor, Civil Engineering, Department of Technology, Shivaji University, Kolhapur

Publication summary					
Journal publications (UGC/Scopus indexed)		Book publication	Conference papers		Journal reviewer
National	I.National		National	I. National	
05	13	01	-	03	01

Achievement/Award/ Recognition

Journal reviewer

Appointed as a reviewer for the journal titled *American Journal of Engineering and Applied Sciences*, a multidisciplinary, Scopus indexed and UGC approved journal with H-index 45.

Award

Outstanding academic award for the AY 2017-18 at Sanjay Ghodawat University, Atigre on 8th February 2018.

Head of Department

Worked as a HoD of Civil engineering Dept. at SGI Atigre between the period from July 2009 to 31st December 2014

Shivaji University PG recognized teacher

SU/PGBUTR/Recog/232 dated 10 April 2012

PG dissertation

Guided 23 students in Civil-Structural engineering

Swayam Courses

Completed 2 certificated courses

Student chapter

Coordinator for ISSE student chapter at WCE Sangli

Member of Professional Bodies

ISTE New Delhi (26197), Institution of Engineers Kolkata (AM092814-6), Institution of valuers New Delhi (F10416)

YouTube channel

Started YouTube channel "growhigher". More than 3000 are the viewers. 17 sessions are uploaded on the channel

Software training courses

- 1) Performance based seismic design of RC building using SAP2000 between 7-12 July 2021
- 2) Design of higher building using Etab- 3-20 July 2022
- 3) Nonlinear seismic analysis in SAP2000- 5-12 May 2022

Software Proficiency

SAP2000

SAP2000 is a structural analysis and design software developed by CSI America. It is a very powerful software that can design almost any kind of civil engineering structure.

E-Tabs

ETABS is an engineering software product that caters to multi-story building analysis and design. Modeling tools and templates, code-based load prescriptions, analysis methods and solution techniques, all coordinate with the grid-like geometry unique to this class

Strad-Pro

(STAAD.Pro) is a structural analysis and design software application originally developed by Research Engineers International in 1997. ... It supports over 90 international steel, concrete, timber & aluminum design codes.

Origin

OriginLab Corporation - Data Analysis and Graphing *Software* - 2D graphs, ... *Origin* and *OriginPro*, Graphing and Data Analysis for Science and Engineering.

Publications- Scopus indexed and UGC approved Journals

- 1) Patil V.S and Tande S.N. (2018), "Probabilistic versus deterministic method of seismic performance evaluation", Asian Journal of Civil Engineering, Springer publication. <https://doi.org/10.1007/s42107-018-0015-6>
- 2) Patil V.S and Tande S.N (2018) ," Probabilistic seismic performance assessment of Brick masonry infill reinforced concrete building", International journal of advanced structural Engineering
- 3) Patil V.S and Tande S.N(2017)," Development of seismic fragility curves for mid-rise masonry infilled reinforced concrete building by Incremental Dynamic Analysis",October–November2017issue(Vol.44No.4),pp297-306,Journal of Structural Engineering, CSIR publication, Chennai
- 4) Patil V.S and Tande S.N (2018), "Seismic fragility curves for old reinforced concrete building", August-September 2018 issue(Vol.45No.3),Journal of Structural Engineering, PP 1-12, CSIR, Chennai
- 5) Patil V.S (2021), "Seismic fragility curves for torsionally imbalanced shear walled concrete building", Journal of Institution of engineers-series A, Springer publication <https://link.springer.com/article/10.1007/s40030-021-00527-y>
- 6) Phadtare Aniket and Patil V.S (2021) and,"Effect of Base Isolation for Asymmetric plan RC Building Using Deterministic and stochastic approach ",Journal of Structural Engineering, CSIR publication,vol.48, no.2,Chennai
- 7) Milind Waghmare and V.S. Patil (2017)," Effect Of Presence Of Infills In Ground Story On

Seismic Performance Of R.C. Buildings", International Research Journal of Engineering and Technology (IRJET), volume: 04 Issue: 11 | Nov -2017.

8) Pakhare Diplaxmi and Patil V.S. (2020)," Influence of Soil Structure Interaction on Seismic Fragility of Reinforced Concrete Building," Indian Journal of Engineering, 17(48), 2020, ISSN 2319-7757 EISSN 2319-7765.

9) Yogesh Jadhav and Vishwas Patil (2017)," Effect of User Defined Plastic Hinges On Nonlinear Modelling Of Reinforced Concrete Frame For Seismic Analysis", International Research Journal of Engineering and Technology (IRJET), volume: 04 Issue: 12 | Dec-2017.

10) V.S. Patil and Swami S.M. (2017)," Rapid Visual Screening of Buildings for Potential Seismic Hazards: A Case Study of Chiplun City", International Research Journal of Engineering and Technology (IRJET), volume: Volume: 04 Issue: 07 | July -2017.

11) Pratima Patil, V.S. Patil (2018)," Development of Fragility Curves for Seismic Vulnerability of Asymmetric RC Buildings Resting on Sloping Ground", International Research Journal of Engineering and Technology (IRJET), Volume: 05 Issue: 01 | Jan-2018.

12) Shivani S. Tambade and Prof.(Dr.) V. S. Patil (2020)," Performance Evaluation of Open Ground Storey Building with Soil-Structure Interaction", International Journal of Trend in Research and Development, Volume 7(4), ISSN: 2394-9333.

13) Digvijay M. and Patil V. S. Patil (2018)," Effect of Earthquake Induced Pounding between Equal Heights Buildings," International Research Journal of Engineering and Technology (IRJET), Volume: Volume: 05 Issue: 02 | Feb-2018.

14) Kamble V. and Patil , V. S. Patil (2022)," Investigation of Influence of Skew Angles on R.C.C Box Culvert ," Positif Journal , Vol 22, Issue 8, 2022, PN:73.

15) Pawar J.P. and Patil V.S. (2022)," Study of parameters influencing P-delta effect with nonlinear analysis of mid-rise building," Positif Journal , Vol 22, Issue 8, 2022, PN:228.

16) Rananavare S. A. and Patil V. S. (2022)," Effect of inclination of staging columns on the structural performance of elevated water tank," Positif Journal , Vol 22, Issue 8, 2022, PN:271.

17) Dipak Pagar and Patil V. S. (2022)," structural performance of mobile tower erected on RC building under lateral loading," Positif Journal, Vol 22, Issue 8, 2022, PN:47.

18) Abhijit Shendage and Patil V. S. (2022)," Pre-engineered building vs conventional building under wind and seismic loading," Positif Journal , Vol 22, Issue 8, 2022, PN:21.

Conference papers

1) Patil V.S, Tande S.N and Patil C.S. (2018)," Fragility analysis for seismic retrofitting assessment of an open ground storied RC building", International conference on Advances in Science & Technology of Concrete, ACI, 14-15 December 2018.

2) Patil V.S, Desai R. M.(2018),"Probabilistic approach for sustainable seismic design for performance evaluation of existing buildings", International conference on sustainable growth through universal practices in science, technology and management, 8-10 June 2018. Organized Jointly by Sanjay Ghodawat University, Atigre and DTE Goa.

3) Iliyas A. Bagwan and V.S. Patil (2021)," Artificial Sand-Based Self-Compacting Concrete Using GGBFS as Admixture for Road Pavement, proceedings of International e-Conference on Sustainable Development in Concrete Technology ICSDCT 2021, 19-21 August 2021, Pune, Maharashtra, India.

Book Publication

"Seismic fragility curves for RC building", LAP Lambert Academic Publishing house, USA. ISBN:9786204718644

S.N.	Name of Student	Name of College/University	Year of Completion	Title of Thesis
1	Mr. Shivaknt Swami Mob:8208410012	SGI, Atigre/Shivaji University	July 2017	Rapid visual screening of buildings for potential seismic hazards- a case study of Chiplun city
2	Mr. Waghmare Milind Bhagwan Mob:7276699634	SGI, Atigre/Shivaji University	Feb.2018	Effect of non-linear modelling of brick masonry infill on seismic Performance of reinforced concrete buildings.
3	Mr. JadhavYogeshTukaram Mob:9921523737	SGI, Atigre/Shivaji University	Feb.2018	Effect of user defined plastic hinges on nonlinear modeling of Reinforced concrete frame for seismic analysis
4	Miss. Patil Pratima Dnyandeo Mob:9921775727	SGI, Atigre/Shivaji University	Feb.2018	Development of fragility curves for seismic vulnerability of Asymmetric Reinforced Concrete Buildings
5	Mr. Digvijay Madhukar Patil Mob:9503341084	SGI, Atigre/Shivaji University	July2018	Effect of earthquake - induced pounding between equal height buildings
6	Ms. Joshi Pooja Prakash Mob:7506551866	SGI, Atigre/Shivaji University	Sep.2020	Effect of ductility demand on seismic fragility curves
7	Miss. Shivani SujayTambade Mob:9881431894	SGI, Atigre/Shivaji University	Jan.2021	Performance evaluation of open ground storey building with soil- structure interaction
8	Miss. Joshi Sharayu Purushottam Mob:7057345406	SGI, Atigre/Shivaji University	Feb.2021	Effectiveness of seismic retrofitting strategies of stiffness imbalanced reinforced concrete building using fragility curves
9	Mr. Pandit Ashwinkumar Vivek Mob:7020913517	SGI, Atigre/Shivaji University	Feb.2020	Rapid visual screening for seismic evaluation of buildings for potential seismic hazards – a case study of Chiplun town
10	Miss. Diplaxmi Chandrakant Pakhare Mob:7720906633	Walchand college of Engineering, Sangli	July 2020	Seismic vulnerability assessment of Reinforced concrete building by soil Structure interaction
11	Mr. Bansode Harshad Haribhau Mob:9665013395	Walchand college of Engineering, Sangli	July 2020	Seismic response of high rise mega braced Frame core building
12	Mr. Aniket Balasaheb Phadtare Mob:8355964240	Walchand college of Engineering, Sangli	July 2020	Seismic fragility analysis of base- Isolated horizontally irregular Reinforced concrete building
13	Miss. Smita Subhash Gaikwad Mob:9764067936	Walchand college of Engineering, Sangli	July 2020	Behaviour of different skew angles and Sensitivity analysis of skewed bridge

14	Miss. Dhanshree Chandrakant Gajankush Mob:8484912410	Walchand college of Engineering, Sangli	August 2021	Effective location of shear wall in Torsionally imbalanced reinforced concrete Tall building under lateral loading
15	Ms. Pawar Samruddhi M. Mob:9657087372	Walchand college of Engineering, Sangli	August 2021	"User Defined Plastic Hinge Modelling for Non- Linear Seismic Response on Reinforced Concrete Building"
16	Mr. Iliyas Arif Bagwan Mob:7276898689	Walchand college of Engineering, Sangli	August 2021	Artificial sand based self-compacting Concrete using GGBFS as admixture for Road pavement
17	Miss. Kumbhar Sonal Ramchandra Mob:9527270598	Walchand college of Engineering, Sangli	August 2021	"Effective Configuration and Location of Viscous Dampers for Tall RC Building under Wind and Seismic Loading"
18	Mr. Mayur Vishwasrao Kale Mob:8275229687	Walchand college of Engineering, Sangli	August 2021	Effect of vibration isolation on table Top turbo generator foundation
19	Kamble Vishal Mob:9373444363	Walchand college of Engineering, Sangli	August 2022	Investigation of Influence of Skew Angles on R.C.C Box Culvert
20	Pawar Joyti Mob:8788393633	Walchand college of Engineering, Sangli	August 2022	Study of parameters influencing P-delta effect with nonlinear analysis of mid-rise building
21	Rananavare S. A. Mob:8483890889	Walchand college of Engineering, Sangli	August 2022	Effect of inclination of staging columns on the structural performance of elevated water tank
22	Dipak Pagar Mob:9766895789	Walchand college of Engineering, Sangli	August 2022	Structural performance of mobile tower erected on RC building under lateral loading
23	Abhijit Shendage Mob:7057096222	Walchand college of Engineering, Sangli	August 2022	Pre-engineered building vs conventional building under wind and seismic loading

Professional Experience

1) Property valuator-

Worked as a property valuator in National bank, scheduled bank and pet-sanstha

2) Structural designer- Kolhapur Zilla parishad (ZP)

Dr.V.S.Patil

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