

SHIVAJI UNIVERSITY, KOLHAPUR

DEPARTMENT OF TECHNOLOGY

Vidyanagar, KOLHAPUR- 416 004 (INDIA)

NAAC 'A++' Grade with CGPA 3.52



Dr.(Er.) P.P. Phadnis

Phone: +91 231 2609414/2609424 (O), Fax:

(B.E. (Civil), M.Tech (Structural Engg), Ph.D.(Civil))

Mob. : +91 9890613492

Assistant Professor

E-mail: ppp_tech@unishivaji.ac.in

Birth date: 05/01/1983

Date of joining: 06/07/2009

Date of Superannuation: 31/01/2043

Language competency: English, Marathi

Academic credentials: *Note: International (Intl.); National (Natl.); Grants in crore; Participation (Parti.)

Publications: Intl. (<i>Natl.</i>)	6(05)	Citation index	0
<i>h</i> -index	3	<i>i</i> -10 index	0
Research Gate Score	216	Research Gate total impact points	0
IF range (Total) Average	0-5	Paper with IF >2(>5) >10	4
Research projects as PI (<i>Co-PI</i>)	0	Total Project grants	0
Patents	0	Invited talks	2
Research guidance: Ph.D. (Total)	0	Research guidance : M. Tech	1
Number of Books: Intl. (<i>Natl.</i>)	0	Conference organized (Conveyor)	0
Conferences: Intl. Parti. (Attd.)	2	Conferences: Natl. Parti. (Attd.)	07(07)
Training Prog. Attended Intl. (<i>Natl.</i>)	0(16)	Training Prog. Organized Intl. (<i>Natl.</i>)	0(0)
Instrumental in active MoU Intl. (<i>Natl.</i>)	0	Experience-Teaching (Research)	15(11)
Member of Academic Body Intl. (<i>Natl.</i>)	01	Member of Editor. Board Intl. (<i>Natl.</i>)	0

❖ **Broad research areas:** Civil Engineering Structures

❖ **Specific research areas:**

Seismic analysis of structures: Nonlinear static analysis and nonlinear dynamic analysis of structures

Steel-Concrete Composite structures: Analysis and design of building and bridge

Civil Consultancy: Analysis and design of structures

❖ **Achievements:**

1. Topper at “Advanced Concrete Technology” course examination organized by SWAYAM NPTEL-AICTE IIT, Madras in 2019.
2. Topper at “Advanced topics in Science and Technology of Concrete” course examination organized by SWAYAM NPTEL-AICTE IIT, Madras in 2020.

❖ **Work Experience:**

1. Working as an Assistant Professor in Department of Technology, Shivaji University, Kolhapur since 2009.
2. Worked as a lecturer in Civil Engineering Department in Walchand College of Engineering, Sangli during 2007-2009.
3. Worked as a Trainee Engineer in Ramky Infrastructure Ltd., at Viveswaraiah Technological University, Belgaum during 2006.

❖ **Membership of Professional Bodies**

Life member of NICEE, IIT, Kanpur

❖ **Representative 10 latest publications in conferences:**

1. P.P. Phadnis, S.N. Tande (2009), Analysis and Design of 3-span Continuous Steel-concrete Composite Bridge, ACSGE-2009, BITS Pilani, India, pp.1-12.

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2. **P.P. Phadnis**, M.S. Salunkhe (2012), Continuous Steel-Concrete Construction for Bridge - an Efficient Solution *National Conference on 'Emerging Technologies for Sustainable Developments (NCET)*, Department of Technology, Shivaji University, Kolhapur, pp. 37.
3. **P.P. Phadnis**, Dr. D. K. Kulkarni (2013), Seismic Analysis of Multistoried RCC Building With Shear Wall, Proceeding of National Conference on Research and Development in Structural Engineering, RIT Sakharale, ISBN: 978-81-923755-4-0, pp. 133-141.
4. **P.P. Phadnis**, M.S. Salunkhe (2014), ANSYS in strength of Materials, *National Conference on 'Emerging Trends in Engineering and Technology'* at D.Y. Patil College of Engineering and Technology, Kolhapur, 35-39, ISBN: 978-81-920561-4-2, pp.35-39.
5. **P.P. Phadnis**, Dr. D. K. Kulkarni (2016), Performance Evaluation of Composite Steel-Concrete shear wall, *National conference on Computer Aided Analysis and Design of structures (CADDs-2016)* organized by Shri Dharmastala Manjunatheshwara College of Engineering and Technology, Dharwad, published in Bonfring International Journal of Man Machine Interface, Vol. 4, Special Issue, ISSN 2277-5064, pp.200-205.
6. **P.P. Phadnis** (2017), Choice Based Credit System, *National Conference on Impact Assessment and Accreditation on Higher Professional Institutes (A2HPI)* jointly organized by K.I.T.'s College of Engineering and Shivaji University, Kolhapur.
7. **P.P. Phadnis** (2021), Combined Use of Sugarcane Bagasse Ash and Nylon Fibers in Concrete, *Proceedings of International e-Conference on Sustainable Development in Concrete Technology ICSDCT 2021* during 19th-21st August, 2021, organized by Department of Civil Engineering, D.Y. Patil College of Engineering, Akurdi, Pune, Maharashtra, India, ISBN: 978-93-91041-26-7, pp. 164-168.
8. **P.P. Phadnis** (2022), Probabilistic Seismic Performance Evaluation of RCC Building, *Second International conference on Emerging Research Trends in Structural Engineering*, organized by School of Civil Engineering (SCM) at Vellore Institute of Technology, Chennai during 24-25th March, 2022.

Publications in journals:

1. O.P. Suryawanshi, **P.P. Phadnis** (2015), Water Resources Management for Sustainable Development of Sadale-Madale Village, Kolhapur, *International Journal of Science and Research*, Volume: 04, Issue: 08, (IF: 4.438), ISSN: 2319-7064, pp.1173-1176.
2. **P.P. Phadnis**, Dr. D. K. Kulkarni (2016), Pushover Analysis of High Rise Reinforced Concrete Building with and without Infill walls, *International Research Journal of Engineering and Technology (IRJET)*, Volume: 03, Issue: 12, (SJIF IF: 5.181), e-ISSN: 2395 -0056, p-ISSN: 2395-0072, pp. 1427-1432.
3. **P.P. Phadnis** (2018), Seismic Fragility Curves of High Rise Masonry Infilled Reinforced Concrete Building, *International Research Journal of Engineering and Technology (IRJET)*, (SJIF IF: 7.211), Volume: 05, Issue: 6, e-ISSN: 2395 -0056, p-ISSN: 2395-0072, pp. 1914-1921.
4. **P.P. Phadnis**, D.K. Kulkarni, A.B. Kulkarni and V.V. Karjinni, (2018), Performance of Composite Steel-Concrete Shear Walls with Encased Vertical Steel Sections, *The Indian Concrete Journal*, Vol. 92, No.7, Design Special Issue, pp. 74-81, SCOPUS indexed, ISSN: 0019-4565, SJR impact factor (2018): 0.251, SCimoga H-index 18, UGC approved no. 15517.
5. **P.P. Phadnis** and V.V. Karjinni (2018), Effective configuration of composite shear walls in medium and high rise RCC buildings, *International Journal of Research and Analytical Reviews (IJRAR)*, Vol. 5, No. 4, UGC approved, (IF:4.236), e-ISSN: 2348-1269, p- ISSN: 2349-5138, pp. 605-612.
6. **Phadnis P.P.** and V.V. Karjinni, (2019), Design of Composite Shear Wall Encased with Vertical Steel Profiles, *Journal of Today's Ideas and Tomorrow's Technology*, Vol. 7, No. 1, pp. 61-72, Chitkara University, Chandigarh, UGC approved no. 46157.

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7. **Phadnis P.P.** and V.V. Karjinni, (2019), Effect of Infill on Fragility Analysis of Composite Shear Wall Buildings, *The Indian Concrete Journal*, SCOPUS indexed, Vol. 93, No.11, pp. 57-67, SCOPUS indexed, ISSN: 0019-4565, SJR impact factor (2018): 0.251, SCImoga H-index 18, UGC approved no. 15517.
8. **Phadnis P.P.** and V.V. Karjinni, (2019), Fragility for Steel-Concrete Composite Shear Wall Buildings with Torsional Irregularity, *Asian Journal of Civil Engineering, Building and Housing*, Vol. 20, No. 8, pp. 1163-1176, Springer, ISSN: 1563-0854, DOI: 10.1007_s42107-019-00174-6, SCImago Journal Rank (SJR): 0.227, SJR impact factor (2018): 0.60, H-index: 16.
9. **Phadnis P.P.** and V.V. Karjinni, (2019-2020), Interaction Diagrams for Concrete Shear Wall Reinforced by Encased Steel Profiles, *Journal of Structural Engineering, CSIR, Chennai*, Vol. 46, No.5, pp. 346-357, SCOPUS indexed, UGC approved no. 10695, ISSN: 0970-0137, SJR impact factor (2018): 0.129, SCImoga H-index.
10. **Phadnis P.P.** and V.V. Karjinni, (2021), Fragility Curves for Steel-Concrete Composite Shear Wall RCC Infill Moment Resisting Frame System, *Journal of Structural Engineering, CSIR, Chennai*, Vol. 47, No.6, pp. 453-465, SCOPUS indexed, UGC approved no. 10695, ISSN: 0970-0137, SJR impact factor (2018): 0.129, SCImoga H-index 10.
11. **Phadnis P.P.** and V.V. Karjinni, (2021), Effect of soil-structure interaction on fragility analysis of composite shear wall buildings, *Journal of Structural Engineering*, Vol. 48, No. 2, pp. 167-178, SCOPUS indexed, UGC approved no. 10695, ISSN: 0970-0137, SJR impact factor (2021): 0.14, SCImoga H-index 13.
12. **Phadnis P.P.** (2021), Probabilistic Assessment of Asymmetric Plan Steel-concrete Composite Shear Wall-RC Framed Building, *Journal of Structural Engineering*, Vol. 48, No. 4, pp. 284-306, SCOPUS indexed, UGC approved no. 10695, ISSN: 0970-0137, SJR impact factor (2021): 0.14, SCImoga H-index 13.
13. **Phadnis P.P.** (2022), Fragility Analysis for Frame with RC and Steel-composite Shear Wall, *Resilient Infrastructure, Proceedings of VCDRR 2021, Lecture Notes in Civil Engineering*, Springer, SCOPUS indexed, ISSN: 2366-2557, ISBN 978-981-16-6977-4, SJR impact factor (2020): 0.133, SCImoga H-index 13, <https://doi.org/10.1007/978-981-16-6978-1>.
14. **Phadnis P.P.**, Desai R.M. Tande S.N., Dhumal P.P. (2023), Fragility analysis of masonry infill R.C. frame using incremental dynamic approach, *Asian Journal of Civil Engineering, Building and Housing*, <https://doi.org/10.1007/s42107-023-00719-w>

❖ Workshops Attended:

1. Participated in 2 weeks ISTE workshop on “Solar Photovoltaics: Fundamentals, Technologies and Applications”, organized by IIT, Bombay sponsored by MHRD, 11th December 2011 to 22nd December 2011 at Department of Technology, Shivaji University, Kolhapur .
2. Participated in 2 weeks ISTE workshop on “Computational Fluid Dynamics”, organized by IIT, Bombay sponsored by MHRD, during 12th June, 2012 to 22th June, 2012 at Department of Technology, Shivaji University, Kolhapur.
3. Participated in 2 weeks ISTE workshop on “Introduction to Research Methodologies organized by IIT, Bombay sponsored by MHRD, during 25th June, 2012 to 4th July, 2012 Department of Technology, Shivaji University, Kolhapur.
4. Participated in 2 weeks ISTE workshop on “Engineering Thermodynamics”, organized by IIT, Bombay sponsored by MHRD, during 11st December, 2012 to 21st December, 2012 Department of Technology, Shivaji University, Kolhapur.
5. Participated in 2 weeks AICTE sponsored Faculty development Programme on 'Structural Dynamics and Earthquake Engineering' at Department of Applied Mechanics, Walchand College of Engineering, Sangli, during 3rd June, 2013 to 15th June, 2013 Department of Technology, Shivaji University, Kolhapur.
6. Participated in 2 weeks ISTE workshop on “Engineering Mechanics”, organized by IIT, Bombay sponsored by MHRD, during 26th November, 2013 to 6th December, 2013.
7. Participated in 2 weeks ISTE workshop on “Computer Programming”, organized by IIT, Bombay sponsored by MHRD, during 16th June, 2014 to 23rd June, 2014 Department of Technology, Shivaji University, Kolhapur.

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8. Participated in 2 weeks ISTE workshop on “Cyber Security”, organized by IIT, Bombay sponsored by MHRD, during 10th – 20th July, 2014 Department of Technology, Shivaji University, Kolhapur.
9. Participated in 1 week Continuing Education and Quality Improvement Programme on ‘Computing Techniques for Solving Engineering Problems’ organized by Department of Technology, Shivaji University, Kolhapur during 18th February to 22nd February, 2015 sponsored by TEQIP.
10. Participated in 1 week Faculty development Programme ‘Fundamentals of Structural Dynamics and Application to Earthquake Engineering’, organized by Sajay Ghodawat Group of Institutions, Atigre during 7th December, 2015 to 12th December, 2015.
11. Participated in 1 week short term Training program on “Optimization Techniques and Awareness on Research” organized by Ashokrao Mane Group of Institutions, Vathar Tarf Vadgaon sponsored by AICTE during 30th December, 2019 to , 3rd January, 2020.
12. Participated in 12 weeks MOOC Faculty Development Program on “Advanced Concrete Technology” organized by NPTEL-AICTE through SWAYAM NPTEL-AICTE through SWAYAM during July-October 2019.
13. Participated in 1 week online workshop on “Seismic Analysis of Multistoried RC Building using SAP2000 and ETAB” organized by Department of Civil Engineering, WCE, Sangli sponsored by TEQIP-III during July 22nd – 26th 2020.
14. Participated in 4 Week Induction Programme for “Faculty in Universities/Colleges/Institutes of Higher Education” Online Teaching Learning Centre, Ramanujan College, University of Dehli sponsored by Ministry of Education, Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching during 11/01/2021 to 09/02/2021.
15. Participated in Online workshop on “Curriculum Design as per OBE Philosophy” Department of Technology, Shivaji University, Kolhapur sponsored by TEQIP-III, during 09/02/2021 to 24/02/2021.
16. Participated in 5 days Virtual Faculty Development Program on “Outcome Based Education and NBA” Electronics Engineering Department and IQAC of Rayat Shikshan Sanstha’s Karmaveer Bhaurao Patil College of Engineering, Satara during 08/05/2021 to 12/05/2021.

❖ Invited Talks

1. Guidelines to Design of Bridge-Preliminary Survey, Training Program at P.W.D. for Assistant Engineer Grade-2 Junior Engineer on 29th August, 2013.
2. Bridge-Constructional Details, Training Program at P.W.D. for Assistant Engineer Grade-2 Junior Engineer on on 6th August, 2014.
3. “Performance of Frame Composite Shear Wall” Online Expert Lecture at Department of Civil Engineering, Sinhgad College of Engineering, Korti, Pandharpur on 23th Oct., 2021.

❖ M.Tech Thesis Guided

M.Tech Thesis Title: Techno-Social study of Watershed Management for Village in Kolhapur district

Name of student: Mr. Omkar P. Surywanshi

❖ Additional computer skills:

1. AutoCAD, STAAD.PRO, ETABS, SAP, ANSYS

❖ Preparation and Development of Absolute Grade Credit system for B.Tech

❖ Design of Curriculum

1. Working as a member of Program Advisory Board of Civil Engineering
2. Preparation and Development of syllabus for First Year B.Tech of subjects Engineering Mechanics and Fundamentals of Civil Engineering Syllabus
3. Preparation and Development of Second, Third and Final Year B.Tech Civil Engineering Syllabus

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Assistant Professor

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❖ **Additional academic skills/activities: -**

1. Working as in charge of Concrete Technology laboratory.
2. Working as a member of Admission Committee.
3. Working as library committee member for Civil Engineering.
4. Working as coordinator of Women's cell at Department of Technology, Shivaji University, Kolhapur.
5. Carried out Structural audit of Shahu Mill buildings in 2022.
6. Carried out Structural audit of University buildings in 2018.
7. Worked as Syllabi Coordinator since 2011 to May, 2016
8. Worked as Session-Chair for INSPIRE-2012, Science camp, sponsored by Department of Science and Technology, Govt. of India, organized by Department of Technology, Shivaji University, Kolhapur
9. Worked as organizing committee member for National Conference on Emerging Technologies for Sustainable Developments NCET-2012.
10. Worked as organizing committee member for INSPIRE Science Camp 2012.
11. Worked as organizing committee member for sports and cultural programs
12. Worked as organizing committee member for Women's day program

❖ **Additional social activities:**

1. Blood Donation
2. Tree Plantation