

PRASAD M. GHARAT

Assistant Professor (Tenured), Department of Civil Engineering
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Objectives:

- Work in the field of Civil Engineering Education.
- Update the knowledge through continuous learning and educate people.
- Bridge the gap between the Industry – Institute.
- Contribute in research and provide consultancy services.

Educational Qualifications:

- **Ph.D. (Pursuing)** from Bharatiya Vidya Bhavan's Sardar Patel College of Engineering, (Government Aided Autonomous Institute under Mumbai University) Andheri, Mumbai University.
- **M. E. Civil with Structural Engineering Subjects** from Bharatiya Vidya Bhavan's Sardar Patel College of Engineering, (Government Aided Autonomous Institute under Mumbai University) Andheri, Mumbai University with First Class Distinction in August 2005
- **B. E. Civil Engineering** from Bharatiya Vidya Bhavan's Sardar Patel College of Engineering, (Government Aided Autonomous Institute under Mumbai University) Andheri, Mumbai University with First Class in June 2001
- **Licentiate of Civil and Environmental Engineering (Diploma)** from Veermata Jijabai Technological Institute, Matunga, Mumbai with First Class with Distinction in May 1998

Academic and Professional Experience:

- In-Plant Training: 01 Year
- Industrial Experience: 01 Year
- Academic Experience: 20 Years 06 Months
- Total Experience: 22 Years 06 Months
- Consultancy Experience: 07 Years 06 Months

Membership of Professional Institutions:

- Chartered Engineer (India) (Membership No. M163298-6)
- Member of Institution of Engineers (India) (Membership No. M-163298-6)
- Life member of the Association of Structural Rehabilitation (Membership No. A00138)
- Life member of India Chapter of American Concrete Institute (Membership No. LM-11-027)

Position Held:

- Assistant Professor (Tenured Based) in Department of Civil Engineering, Bharatiya Vidya Bhavan's Sardar Patel College of Engineering, (Government Aided Autonomous Institute under Mumbai University) Andheri, Mumbai from November 2024.
- Member of Board of Studies in Civil Engineering at SVKM's NMIMS (Deemed to be University), Mukesh Patel School of Technology Management and Engineering, Mumbai from June 2014 – November 2024.
- ABET & NBA Accreditation Department Coordinator for Civil Engineering Department at SVKM's NMIMS (Deemed to be University), Mukesh Patel School of Technology Management and Engineering, Mumbai from June 2018 – November 2024.
- Assistant Professor in Civil Engineering Department at SVKM's NMIMS (Deemed to be University), Mukesh Patel School of Technology Management and Engineering, Mumbai from July 2011 – November 2024.
- Member of Academic Council of SVKM's NMIMS (Deemed to be University), Mumbai from July 2011 – May 2014.
- I/C Head, Civil Engineering Department at SVKM's NMIMS (Deemed to be University), Mukesh Patel School of Technology Management and Engineering, Mumbai from July 2011 – May 2014.
- Assistant Professor in Structural Engineering Department, Bharatiya Vidya Bhavan's Sardar Patel College of Engineering, (Government Aided Autonomous Institute under Mumbai University) Andheri, Mumbai from February 2005 – July 2011.
- Visiting Faculty in Structural Engineering Department, Bharatiya Vidya Bhavan's Sardar Patel College of Engineering, (Government Aided Autonomous Institute under Mumbai University) Andheri, Mumbai from July 2004 – February 2005 for part time B.E. Civil Engineering Program
- Visiting Faculty for Structural Engineering Department, Bharatiya Vidya Bhavan's Sardar Patel College of Engineering, (Government Aided Autonomous Institute under Mumbai University) Andheri, Mumbai from January 2013 – May 2017 for Full time M. Tech Structures Program
- Engineer for S. J. Group from August 2001 – July 2002
- Trainee Site Engineer for Navalai Co. Op. Hsg. Soc from January 1997 – December 1997
- Visiting Faculty for SVKM's NMIMS (Deemed to be University), School of Business Management for program of MBA in Real Estate Management.
- Guide for M. Tech. Dissertations in Structural Engineering Department, Bharatiya Vidya Bhavan's Sardar Patel College of Engineering, (Government Aided Autonomous Institute under Mumbai University) Andheri, Mumbai
- External Examiner for M. Tech. Dissertations in Structural Engineering Department, Bharatiya Vidya Bhavan's Sardar Patel College of Engineering, (Government Aided Autonomous Institute under Mumbai University) Andheri, Mumbai
- Reviewer for peer-blind review process of the publications, for 13th Structural Engineering Convention (SEC-2023) held during 07th – 09th December, 2023 organized by Department of Applied Mechanics, Visvesvaraya National Institute of Technology, Nagpur under the aegis of Indian Association for Structural Engineering (IASE).

Key Achievements at SVKM's NMIMS (Deemed to be University), Mukesh Patel School of Technology Management and Engineering, Mumbai:

- Successfully achieved the ABET Accreditation for 6 years for B. Tech Civil Engineering Program from Year 2020-2026.
- Designing and implementation of the Curriculum in line with the model curriculum of AICTE from Year 2021 onwards for B. Tech Civil Engineering Program with 152 credits.
- Designing and implementation of the Curriculum from Year 2021 onwards for B. Tech Civil Engineering Program with 165 credits.
- Designing and implementation of the Curriculum from Year 2014 onwards for 6 years integrated B. Tech Civil Engineering Program after standard X.
- Designing and implementation of the Curriculum for 5 years integrated B. Tech Civil Engineering and MBA Technology Management Program.
- Designing and implementation of the Curriculum from trimester system to semester system from Year 2013 onwards for B. Tech Civil Engineering Program.
- Successfully conducted Ten-Weeks Training Program on Fundamentals of Solid Mechanics for Design of Process Plant Equipment and Structures for HE IC conducted online for L&T, Mumbai for training young Engineers from 30 December 2022 - 03 March 2021.
- Excellent student feedback for teaching and learning.

Consultancy and Testing work in Structural Engineering Department, Bharatiya Vidya Bhavan's Sardar Patel College of Engineering, (Government Aided Autonomous Institute under Mumbai University) Andheri, Mumbai:

- Condition assessment of buildings in Mira Bhayander area for Mira Bhayander Municipal Corporation, buildings in western suburbs area for Municipal Corporation of Greater Mumbai and buildings for private builders, developers, contractors and Co. Op. Hsg. Societies.
- Proof checking of RCC drawings for various structures using softwares like STAADPRO, ETABS, SAFE, etc.
- Performing various non-destructive testing on RCC structures
- Performing various tests to evaluate physical properties of different building materials like cement, aggregates, sand, concrete, bricks, blocks, tiles, steel, timber, etc. in the material testing laboratory
- Performing various Non-Destructive Tests on dilapidated structures to evaluate their performance like rebound hammer test, ultrasonic pulse velocity tests, carbonation depth test, half-cell potentiometer test, slab load test, core test, etc.

Training Programs Conducted:

- Ten-Weeks Training Program on Fundamentals of Solid Mechanics for Design of Process Plant Equipment and Structures for HE IC conducted online for L&T, Mumbai for training young Engineers from 30th December 2022 – 03rd March 2021
- Two days training program on analysis and design of high-rise buildings using STAADPro organized at Bharatiya Vidya Bhavan's Sardar Patel College of Engineering, (Government Aided Autonomous Institute under Mumbai University) Andheri, Mumbai on 27th & 28th March 2009

Journal Publications:

- Gharat Prasad M., Murudi Mohan M., 2025, “Optimum Parameters of Tuned Liquid Column Dampers Used for Controlling Response of the Structures Subjected to Recorded Earthquake Motions”, *Journal of Civil and Environmental Engineering, Volume 13, Issue 7, July 2025*.
- Sahajanand, K., Meenal, M. and Prasad, G., 2020. “Flow and Transport of Phenol in Groundwater using PGWT Equation”, *Heliyon, 6(2)*, p.e 03413.
- Brijesh Gandhi, Prasad Gharat, Dr. M. M. Murudi, 2017. “A Study on the Effect of Partial Moment Releases on the Behaviour of Steel Structure”, *International Journal of Innovative Research in Science, Engineering and Technology, Vol. 6, Issue 7, July 2017*.

Book Chapter:

- Prasad Gharat, Dr. M. M. Murudi, 2023. “A Modern Approach for Seismic Isolation of Bridges”, *Sustainability and Innovations in Civil Engineering – A Perspective of Research in Civil Engineering, Imperial Publications ISBN: 978-93-91044-60-2, pg.133-142*.

Invited Speaker:

- “Design of Pressure Vessels” in Ten-Weeks Training Program on Fundamentals of Solid Mechanics for Design of Process Plant Equipment and Structures for HE IC conducted by L&T, Mumbai for training young Engineers on 03rd March 2021.
- “Design of Eccentrically Loaded Connections” in Ten-Weeks Training Program on Fundamentals of Solid Mechanics for Design of Process Plant Equipment and Structures for HE IC conducted by L&T, Mumbai for training young Engineers on 24th February 2021.
- “Design of Axially Loaded Connections” in Ten-Weeks Training Program on Fundamentals of Solid Mechanics for Design of Process Plant Equipment and Structures for HE IC conducted by L&T, Mumbai for training young Engineers on 17th February 2021.
- “Stresses in Pressure Vessels” in Ten-Weeks Training Program on Fundamentals of Solid Mechanics for Design of Process Plant Equipment and Structures for HE IC conducted by L&T, Mumbai for training young Engineers on 20th January 2021.
- “Energy Approach” in Ten-Weeks Training Program on Fundamentals of Solid Mechanics for Design of Process Plant Equipment and Structures for HE IC conducted by L&T, Mumbai for training young Engineers on 13th January 2021.
- “Buckling Theory” in Ten-Weeks Training Program on Fundamentals of Solid Mechanics for Design of Process Plant Equipment and Structures for HE IC conducted by L&T, Mumbai for training young Engineers on 06th January 2021.
- “Stress - strain relations Bending theory” in Ten-Weeks Training Program on Fundamentals of Solid Mechanics for Design of Process Plant Equipment and Structures for HE IC conducted by L&T, Mumbai for training young Engineers on 30th December 2020.
- “Analysis and Design of Axial Tension Members” in MSBTE approved one-week content updating program on “Application of IS 800 2007 in Design of Steel Structures” organized at K. J. Somayya Polytechnic, Mumbai on 14th -18th March 2016
- “Design of Connections in Roof Truss – Bolted and Welded” in MSBTE approved one- week content updating program on “Application of IS 800 2007 in Design of Steel Structures” organized at K. J. Somayya Polytechnic, Mumbai on 14th -18th March 2016
- “Structural Audit and evaluation of repaired Structures” in Training Program on Structural

Failures, Repair and Rehabilitation of Concrete Structures organized at CEPT University, Ahmedabad on 17th & 18th September 2010.

- “Model Generation” in Two days training program on analysis and design of high-rise buildings using STAADPro organized at Bharatiya Vidya Bhavan’s Sardar Patel College of Engineering, (Government Aided Autonomous Institute under Mumbai University) Andheri, Mumbai on 27th & 28th March 2009.

Certifications:

- “Advanced BIM Training Course” conducted by Buildsmart Academy in March 2023
- “Introduction to Microsoft Excel” an online specialization authorized by Coursera Project Network and offered through Coursera in June 2022
- “Fundamentals of GIS” an online course authorized by University of California, Davis and offered through Coursera in June 2022
- “Construction Management” an online specialization authorized by Columbia University and offered through Coursera in April 2022
- “The Construction Industry: The Way Forward” an online course authorized by Columbia University and offered through Coursera in April 2022
- “Construction Finance” an online course authorized by Columbia University and offered through Coursera in April 2022
- “Construction Scheduling” an online course authorized by Columbia University and offered through Coursera in April 2022
- “Construction Project Management” an online course authorized by Columbia University and offered through Coursera in April 2022
- “Construction Cost Estimating and Cost Control” an online course authorized by Columbia University and offered through Coursera in April 2022
- “Foundations of Project Management” an online course authorized by Google and offered through Coursera in October 2021
- “Engineering Project Management: Initiating and Planning” an online course authorized by Rice University and offered through Coursera in September 2021
- “Seismic tomography: look inside the Earth” an online course authorized Novosibirsk State University and offered through Coursera in September 2021
- “AI for Everyone” an online course authorized by DeepLearning.AI and offered through Coursera in September 2021
- “Introduction to Probability and Data with R” an online course authorized by Duke University and offered through Coursera in September 2021
- “Matrix Methods” an online course authorized by University of Minnesota and offered through Coursera in August 2021
- “Basic Statistics” an online course authorized by University of Amsterdam and offered through Coursera in August 2021
- “Fundamentals of Fluid-Solid Interactions” an online course authorized by Institute Polytechnique De Paris and offered through Coursera in March 2021
- “Performance Assessment in the Virtual Classroom” an online course authorized by University of California, Irvine and offered through Coursera in February 2021.
- “Excel Skills for Business: Essentials” an online course authorized by Macquarie University,

Sydney, Australia and offered through Coursera in June 2020.

- “Learning to Teach Online” an online course authorized by The University of New South Wales, Sydney and offered through Coursera in September 2020.
- “C, C++ Program” by SSI Ltd. in April 2001.
- “Web Programming using JAVA” by SSI Ltd. in April 2001.
- “Advanced JAVA and Web Technologies” by SSI Ltd. in April 2001.

FDP / Workshop Attended:

- 2-day workshop on “Climate Change: A Deep Dive into Carbon Net Zero” organized by SVKM’s NMIMS (Deemed to be University), Mukesh Patel School of Technology Management and Engineering, at Mumbai on 3rd and 4th July 2024.
- Faculty Development Program on wheels organized by SVKM’s NMIMS (Deemed to be University), Mukesh Patel School of Technology Management and Engineering, at Mumbai from 4th – 8th July 2023.
- Course on “Supplemental Dissipative Devices for Seismic Retrofitting of Non-Ductile Structures” organized by Continuing Education & Quality Improvement Programmes (CE & QIP) of IIT Bombay from 9th to 11th December 2021
- Advance course on “Wind Loads and Effects on Structures” organized by CSIR – Structural Engineering Research Centre, Chennai from 16th – 18th December 2020.
- Online course on “Remote Sensing & GIS Technology and Applications for University Teachers & Government Officials” organized by Indian Institute of Remote Sensing (IIRS), ISRO Dehradun, from 13th June – 1st September 2020.
- Faculty Development Program on “Water Resource Engineering” organized by SVKM’s NMIMS (Deemed to be University), Mukesh Patel School of Technology Management and Engineering, at Mumbai from 17th – 29th November 2018.
- Faculty Development Program on “Contemporary Practices in Construction Management” organized by SVKM’s NMIMS (Deemed to be University), Mukesh Patel School of Technology Management and Engineering, at Mumbai from 11th – 13th July 2018.
- Three-Day workshop on “Wind Engineering” organized by Indian Society of Structural Engineers and SVKM’s NMIMS (Deemed to be University), Mukesh Patel School of Technology Management and Engineering, at Mumbai from 18th – 20th July 2017.
- Three-Day workshop on “Special Topics of Structural Analysis” organized by SVKM’s NMIMS (Deemed to be University), Mukesh Patel School of Technology Management and Engineering, at Mumbai from 13th – 15th July 2017.
- Two-day workshop on “Efficient use of Excel for Academicians and Administrators” organized by SVKM’s NMIMS (Deemed to be University), Mukesh Patel School of Technology Management and Engineering, at Mumbai on 11th and 12th January 2017.
- Seminar on “Latest Trends in Environmental Engineering and Water Resources Technologies” organized by SVKM’s NMIMS (Deemed to be University), Mukesh Patel School of Technology Management and Engineering, at Mumbai on 23rd December 2016.
- Two-day workshop on “Technical Aspects in Design and Construction of Bridges” organized under Technical Education Quality Improvement Program – II by Bharatiya Vidya Bhavan’s Sardar Patel College of Engineering, at Mumbai on 22nd and 23rd April 2016.
- Orientation Workshop on “Outcome Based Accreditation Process” organized by National

Board of Accreditation and SVKM's NMIMS (Deemed to be University), Mukesh Patel School of Technology Management and Engineering, at Shirpur from 15th – 17th March 2013.

- Professional Development Course on “Analysis and Design of Cold-Formed Steel Sections Used in Construction Industry” organized by Bharatiya Vidya Bhavan’s Sardar Patel College of Engineering, at Mumbai on 30th October 2010.
- National workshop on “Seismic Design of Earth Structures & Foundations for Highrise Buildings” organized by Earthquake Engineering Research Centre and International Institute of International Technology, at Hyderabad held on 26th June 2010.
- Workshop on “IS 800: 2007 Indian Standard General Construction in Steel – Code of Practice (Third Revision)” organized by Bureau of Indian Standard and Institute of Steel Development and Growth, Kolkata, at Mumbai from 17th and 18th November 2008.