

**Dr. Jignesh B. Patel**

M. Tech (Soil Mechanics and Foundation Engineering), MIGS, MIE,  
Ph. D. (Civil Engineering)

Associate Professor

CB-21, B Wing, Department of Civil Engineering

S. V. National Institute of Technology (SVNIT), Surat, Gujarat, India

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**Education**

Degree	Area	Institute	Year	Class/Percentage
Ph.D.	Civil Engg.	S. V. National Institute of Technology, Surat	May 2019	-
M.Tech	Civil Engg. (SMFE)	S. V. National Institute of Technology, Surat	July 2008	First Class with Distinction (CGPA = 8.28)
B.E.	Civil Engg.	Sardar Patel University, V. V. Nagar, Gujarat	July 2006	First class with Distinction (CPI= 8.32 =74.50 %)
D.C.E	Civil Engg.	Technical Examination Board, Gujarat	May 2003	First class with Distinction (77.96 %)

**Research Interests**

- ❖ MSE wall subjected Flood hazard, Hybrid (MSE/Soil nail) wall
- ❖ Geosynthetics and Reinforced earth
- ❖ Ground Improvement
- ❖ Computational Geomechanics

**Teaching Experience**

Position	Institute	Period	
		From	To
Associate Professor	S. V. National Institute of Technology, Surat	17 <sup>th</sup> September 2025	Till to date
Assistant Professor	S. V. National Institute of Technology, Surat	16 <sup>th</sup> March 2009	16 <sup>th</sup> Sept2025

**Research Projects**

Sponsoring Agency	Title
Gujarat Council on Science and Technology(GUJCOST), Department of Science and Technology, Gujarat	Some studies on performance of pervious concrete column for improving soft ground

**Testing and Consultancy :** Involved in testing and consultancy work of various department of State and Central Government. **Visited foreign country for consultancy projects.**

**Publications**Books

- 1) Hemant Patil, Yogesh Patil and Jignesh Patel (2015), Structural Analysis – I, Synergy Knowledgeware, Mumbai, India.
- 2) Yogendra Tandel and Jignesh Patel (2015). Disaster Management. Synergy Knowledgeware, Mumbai, India.

**International Journal (SCI/Scopus)**

1	Krupa Parmar, Ravijeet Ranjan, Jignesh B. Patel, Yogendra Tandel, Jigisha Vashi (2025), “Numerical Investigation of rainfall-induced instability of reinforced soil walls with select and marginal backfills”, Transportation Infrastructure Geotechnology, Volume 12(151), pp. 1-19
2	Ravijeet Ranjan, Sanivada Raviteja, Hariom Singh & Jignesh B. Patel (2024), “A Comprehensive Finite Element and Reliability-Based Analysis of Hybrid Reinforced Earth Retaining Wall Stability and Deformation”, Transportation Infrastructure Geotechnology, Volume 12(41), pp. 1-33

3	Shyam Nandan Roy, Shailendra Kumar, Vishwas A. Sawant & Jignesh B. Patel (2024), "Numerical Analysis of a Geosynthetic-Encased Granular Pile Anchor Subjected to Uplift Load in Cohesionless Soil", Transportation Infrastructure Geotechnology, Volume 12(114), pp. 1-38
4	Yogendra Tandel , Roshni Tandel , Jignesh Patel (2024), "Distance Online Exams in Rural India Amid COVID-19:The Engineering Student's Perspectives" , Journal of Engineering Education Transformations, Volume 38(3), pp. 237-249
5	Chetan Bambhaniya, Jitesh T. Chavda and Jignesh B. Patel (2024). "Observations on tensile testing of intact and slitted geotextiles through image analysis" Geosynthetics International, Volume 31, Issue 5, pp. 773-784, <a href="http://dx.doi.org/10.1680/jgein.23.00113">http://dx.doi.org/10.1680/jgein.23.00113</a>
6	Vikashkumar Jha, Jignesh Patel, Vishwas Sawant & Yogendra Tandel (2023), "Reliability coupled sensitivity analysis of water-front GRS wall using Monte Carlo simulation" Indian Geotechnical Journal, Volume. 53(6), pp. 1479-1493.
7	V. A. Jha, J. B. Patel, V. A. Sawant, Y. K. Tandel (2023), "Flood Hazard Assessment of Water-Front Geosynthetic Reinforced Soil Wall for Dam Regulation Rule Level" International Journal of Engineering, Volume. 36(4), pp. 640-648.
8	Jerin Joseph, Shailendra Kumar, Jignesh B. Patel, Vishwas Sawant & Yogendra Tandel (2022), "Model tests on granular pile anchor and helical anchor: A comparative study" International Journal of Geosynthetics and Ground Engineering, Volume. 8(44).
9	J. B. Patel, C. H. Solanki, Y. K. Tandel and B. G. Patel (2022), "Finite element modelling of the embankment seated on pervious concrete-stone column composite column" Australian Geomechanics, Volume. 57(2).
10	YK Tandel, JB Patel, S Budde, S Kumar, CH Solanki, BG Patel (2022), "Three-dimensional numerical analyses of Pervious concrete column for soft soil improvement", Current Science, Volume. 122(9), pp. 1044-1050.
11	Jerin Joseph, Shailendra Kumar, Vishwas A Sawant & Jignesh B Patel (2021), "An experimental and numerical comparative study on the uplift capacity of single granular pile anchor and rough pile in sand", International Journal of Geotechnical Engineering, Volume. 16(4), pp. 499-513.
12	Patel Jignesh; Solank Chandresh; Tandel Yogendra; Patel Bhavin (2021), "Laboratory Model Tests on Stone Column and Pervious Concrete Columns: A Comparative Study", International Journal of Engineering and Technology Innovation, Volume. 12(1), pp. 75-89.
13	Tandel, Y. K., Jamal, M., Solanki, C. H., Desai, A. K. and Patel, J. B. (2017). "Performance of small group of geosynthetic reinforced granular pile." Marine Georesources & Geotechnology, Volume. 35, No. 4, pp. 504-511.
14	Tandel, Y. K., and Patel, J. B. (2009). "Review of utilization of copper slag in highway construction." Australian Geomechanics, Vol. 44, No. 3, pp. 71-80.

### Organization of Courses/ Conferences/Workshop/STTP

Sr. No.	Title of the Event	Period		Venue	Sponsored by	Role (Coordinator/C hairman/Org. Secretary)	Number of Registered Participant/ Beneficiary
		From	To				
1	Indian Geotechnical Conference (IGC-2019) as Joint Organising Secretary	19 Dec 2019	21 Dec 2019	Surat	IGC and others	Joint Organising Secretary	500
2	STTP on Advanced Research Topics in Geotechnical and Structural Engineering	28 <sup>th</sup> Nov 2020	2 <sup>nd</sup> Dec 2021	Online SVNIT	TEQIP III	Coordinator	40

**Supervision of M Tech Students:** Guided more than 25 M. Tech. dissertation from year 2009 to 2025.

**Supervision of Ph.D. students:** 01 completed and 3 ongoing