



**Dr. Yogendra K. Tandel**

Ph.D (Civil Engg.-Geotech. Engg.), MIGS, MISTE, MIE

Assistant Professor  
 Applied Mechanics Department  
 Government Engineering College Valsad, Gujarat, India  
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**Education**

Degree	Area	Institute	%/CGPA	Year	Class
Ph. D.	Civil Engg.	S. V. National Institute of Technology, Surat	88.30/9.33	February 2014	Awarded
M.Tech	Civil Engg. (SMFE)	S. V. National Institute of Technology, Surat	87.20/8.72	August 2008	First Class with Distinction
B.E.	Civil Engg.	The M. S. University of Baroda, Vadodara	60.77	April 2006	First class
12 (H.S.C.)	Science	GSEB, Gandhinagar	55.38	March-April 2002	Distinction
10 (S.S.C.)	General	GSEB, Gandhinagar	80.71	March 2000	Second

**Research Interests**

- ❖ Ground Improvement Techniques
- ❖ Computational Geomechanics
- ❖ Geotechnical Utilization of Recycled Materials

**Teaching Experience**

Position	Institute	Period		
		From	To	Duration
Assistant Professor	Government Engineering College Valsad	03 November 2022	Till date	-
Assistant Professor	Government Engineering College Dahod	10 June 2016	02 November 2022	6 Year 4 Months
Assistant Professor	GIDC Degree Engineering College, Navsari	1 Oct 2014	9 June 2016	1 Year 8 Months
Assistant Professor	C. G. Patel Institute of Technology, Bardoli	1 July 2013	30 Sep 2014	1 Year 3 Months

**Research Projects**

Sponsoring Agency	Title
Gujarat Council on Science and Technology (GUJCOST), Department of Science and Technology, Gujarat	Utilization of rice husk ash and geopolymers for stabilization of subgrade soil
Gujarat Council on Science and Technology (GUJCOST), Department of Science and Technology, Gujarat	Utilization of steel slag, sugar cane ash and dolime for the brick production
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

**Publications**

**Books**

Sr. no.	Description
1)	<b>Yogendra Tandel</b> and Raviraj Sorate (2015). Geotechnics and Applied Geology. Nirali Prakashan, Pune, India.
2)	<b>Yogendra Tandel</b> and Jignesh Patel (2015). Disaster Management. Synergy Knowledgeware, Mumbai, India.
3)	<b>Yogendra Tandel</b> , Chandresh Solanki and Jignesh Patel (2018/23-02-2018). Utilization of Industrial Waste in

International Journal

Sr. no.	Description
1)	<b>Tandel, Y. K.</b> , and Patel, J. B. (2009). "Review of utilization of copper slag in highway construction." Australian Geomechanics, ( <b>Scopus</b> ), (ISSN: 0818-9110), Vol. 44, No. 3, pp. 71-80.
2)	<b>Tandel, Y. K.</b> , Solanki, C. H., and Desai, A. K. (2012). "Deformation behaviour of ground improved by reinforced stone columns." Australian Geomechanics, ( <b>Scopus</b> ), (ISSN: 0818-9110), Vol. 47, No. 2, pp. 51-59.
3)	Rajagopal, C., Solanki, C. H., and <b>Tandel, Y. K.</b> (2012). "Comparison of static and dynamic load test of pile." Electronic Journal of Geotechnical Engineering, ( <b>Scopus</b> ), (ISSN: 1089-3032, Impact factor: 0.8741), Bund. M, pp. 1905-1914.
4)	<b>Tandel, Y. K.</b> , Solanki, C. H., and Desai, A. K. (2013). "3D FE analysis of an embankment construction on GRSC and proposal of a design method." ISRN Civil Engineering, (ISSN: 2090-5114), Vol. 2013, pp. 1-11.
5)	<b>Tandel, Y. K.</b> , Solanki, C. H., and Desai, A. K. (2013). "Laboratory experimental analysis on encapsulated stone column." Archives of Civil Engineering, ( <b>Scopus</b> ), (ISSN: 1230-2945), Vol. 59, No. 3, pp. 359-379.
6)	<b>Tandel, Y. K.</b> , Solanki, C. H., and Desai, A. K. (2014). "Field behaviour of geotextile reinforced sand column." Geomechanics and Engineering, ( <b>SCI</b> ), (ISSN: 2092-6219, Impact factor: 0.244), Vol.6, No. 2, pp. 195-211.
7)	Dhameliya, H. K., Sharma, J. B., and <b>Tandel, Y. K.</b> (2014). "Parametric studies of standard 2-d roof truss configuration." International Journal of Engineering Trends and Technology, (ISSN: 2231-5381, Impact factor: 1.656), Vol. 11, No. 5, pp. 214-218.
8)	<b>Tandel, Y. K.</b> , Jamal, M., Solanki, C. H., and Desai, A. K. (2014). "Prototype Load Tests on Geotextile Reinforced Stone Column." International Journal of Research and Scientific Innovation, (ISSN: 2321-2705, Impact factor: 1.694), Vol. 1, Issue 8, pp. 537-539.
9)	Patel Paresh, Jamnik Anand, Vesmawala Gaurang, and <b>Tandel Yogendra</b> (2015). "Performance of a pile under combined lateral and vertical load." Wulfenia Journal, ( <b>SCI</b> ), (ISSN: 1561-882X, Impact factor: 0.267), Vol. 22, No. 1, pp. 173-184.
10)	Patel Paresh, Jamnik Anand, Vesmawala Gaurang, and <b>Tandel Yogendra</b> (2016). "Three Dimensional Finite Element Modeling of Pile Groups Carrying Combined Lateral and Vertical Load." Electronic Journal of Geotechnical Engineering, ( <b>Scopus</b> ), (ISSN: 1089-3032, Impact factor: 0.8741), Vol. 21, No. 25, pp. 9985-9994.
11)	Patel Bhavin, Desai Atul, Shah Santosh and <b>Tandel Yogendra</b> . (2017). "Size effect on fracture properties of self compacting concrete beams using DIC technique." Jordan Journal of Civil Engineering ( <b>Scopus</b> ), (ISSN: 1993-0461, Impact factor: 0.103), Vol. 11, No. 3, pp. 490-500. 5/3/2017
12)	Vaghela, B. N., Darji, A. R. and <b>Tandel, Y. K.</b> (2017). "A review paper on performance of SCC containing lime stone powder and quarry dust." International Journal for Research in Applied Science & Engineering Technology. (ISSN: 2321-9653, Impact factor: 3.166), Vol. 5, Issue 2, pp.607-609.
13)	<b>Tandel, Y. K.</b> , 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, Taylor & Francis, ( <b>SCI</b> ), (ISSN: 1064-119X, Impact factor: 0.76), Vol. 35, No. 4, pp. 504-511. 10 Sep 2016
14)	Doshi Diplai, Desai Atul, Solanki Chandresh, and <b>Tandel Yogendra</b> (2017). "Seismic Performance of a Group of Pile Reinforced with Micro Piles." Electronic Journal of Geotechnical Engineering, ( <b>Scopus</b> ), (ISSN: 1089-3032, Impact factor: 0.8741), Vol. 22, Bund. 12, pp. 4691-4700.
15)	Patel, J. B., Solanki, C. H., <b>Tandel, Y. K.</b> and Joseph, J. (2018). "Finite Element Modeling Of Pervious Concrete-Stone Column Composite Column Group For Ground Improvement" International Journal of Civil Engineering and Technology ( <b>Scopus</b> ), Vol. 9, Issue 5, pp. 889-895. (ISSN: 0976-6316), May 28,2018, Impact factor:
16)	Patel, J. B., Solanki, C. H., and <b>Tandel, Y. K.</b> (2018). "Pervious Concrete Column: Numerical Evaluation" International Journal of Civil Engineering and Technology ( <b>Scopus</b> ), Vol. 9, Issue 13, pp. 601-607. (ISSN: 0976-6316), December 29,2018, Impact factor:
17)	<b>Tandel Yogendra</b> , and Vesmawala Gaurang (2019). "Field and numerical analysis on effect of axial load on the lateral response of a pile." World Journal of Engineering ( <b>Scopus</b> ), Vol. 16, No. 3, pp. 191-200. (ISSN: 17085284), 3 April 2019, Impact factor: 1.196
18)	J. Patel, C. Solanki, <b>Y. Tandel</b> , and B. Patel, "Laboratory Model Tests on Stone Column and Pervious Concrete Columns: A Comparative Study", Int. j. eng. technol. innov. ( <b>Scopus</b> ), vol. 12, no. 1, pp. 75-89, Oct. 2021. <a href="https://doi.org/10.46604/ijeti.2021.7993">https://doi.org/10.46604/ijeti.2021.7993</a> (03/09/2021), Impact factor: 1.25, ISSN 2226-809X
19)	Joseph, J., Kumar, S., Patel, J.B. Sawant, V. A., <b>Tandel, Y. K.</b> Model Tests on Granular Pile Anchor and Helical Anchor: A Comparative Study. Int. J. of Geosynth. and Ground Eng. ( <b>Scopus</b> ), 8, 44 (2022). <a href="https://doi.org/10.1007/s40891-022-00386-y">https://doi.org/10.1007/s40891-022-00386-y</a> 20/06/2022
20)	J. B. Patel, C. H. Solanki, Y. K. Tandel and B. G. Patel (2022). Finite Element Modelling of An Embankment Seated on Pervious Concrete-Stone Composite Column. Australian Geomechanics Journal, Volume 57, Number 2, ( <b>Scopus</b> ), 23/06/2022.

## National Journal

Sr. no.	Description
1)	<b>Tandel, Y. K.</b> , Solanki, C. H., and Desai, A. K. (2012). "Reinforced granular column for deep soil stabilization: A review." International Journal of Civil and Structural Engineering, (ISSN: 0976-4399, Impact factor: 0.2890), Vol. 2, No. 3, pp. 711-721.
2)	<b>Tandel, Y. K.</b> , Solanki, C. H., and Desai, A. K. (2012). "Reinforced stone column: Remedial of ordinary stone column." International Journal of Advances in Engineering and Technology, (ISSN: 2231-1963), Vol. 3, No. 2, pp. 340-348.
3)	<b>Tandel, Y. K.</b> , Solanki, C. H., and Desai, A. K. (2012). "Numerical modeling of encapsulated stone column-reinforced ground." International Journal of Civil, Structural, Environment and Infrastructure Engineering Research and Development, (ISSN: 2249-6866), Vol. 2, Issue 1, pp. 82-96.
4)	Rakshit, U., <b>Tandel, Y. K.</b> , and Solanki, C. H. (2013). "Behavior of geosynthetic encased sand column in soft soil." International Journal of Engineering Research & Technology, (ISSN: 2278-0181), Vol. 2, No. 6, pp. 2545-2548.
5)	Rakshit, U., <b>Tandel, Y. K.</b> , and Solanki, C. H. (2013). "Effect of geosynthetic encasement on sand column in soft soil." International Journal of Structural & Civil Engineering Research, (ISSN: 2319-6009), Vol. 2, No. 3, pp. 141-146.
6)	Qureshi, M., <b>Tandel, Y. K.</b> , Patel, B. G. (2014). "An experimental study on high strength concrete using fly ash and Alccofine." i-manager's Journal on Structural Engineering, (ISSN: 2320 - 2343), Vol. 2, No. 4, pp. 8-16.
7)	Chokhawala, H. N., Desai, D. J., Rudani S. V., Shah R. D., Raval K. J. and <b>Tandel, Y. K.</b> (2014). "Numerical modelling of pull out resistance of anchored stone column in soft clay." i-manager's Journal on Civil Engineering, (ISSN: 2249-0779), Vol. 4, No. 1, pp. 26-33.
8)	Jamal Mohsin, and <b>Tandel Yogendra.</b> (2015). "Group performance of geo-encased sand column." Indian Journal of Applied Research, (ISSN; 2249555X, Impact factor: 2.165), Vol. 5, Issue 1, pp. 1-2.
9)	<b>Tandel, Y. K.</b> , Jamal, M., Solanki, C. H., and Desai, A. K. (2015). "Numerical analyses laboratory modeled reinforced stone column." Current Science, (SCI), (ISSN: 0011389, Impact factor: 0.833) , Vol. 108, No. 7, pp. 1354-1362.
10)	<b>Tandel, Y. K.</b> , Patel, J. B., Budde, S., Kumar, S., Solanki, C. H., & Patel, B. G. (2022). Three-dimensional numerical analyses of pervious concrete column for soft soil improvement. CURRENT SCIENCE, 122(9), 1044-1050. (SCI). 10.18520/cs/v122/i9/1044-1050, 10/05/22, Impact factor: 0.833

## International Seminar/Conference/Workshop

Sr. no.	Description
1)	<b>Tandel, Y. K.</b> , Solanki, C. H., and Desai, A. K. (2014). "Prototype Load Tests on Geotextile Reinforced Stone Column." Proceeding of International Conference on Multidisciplinary Research & Practice (ICMRP-2014), Ahmedabad, India. , ISBN: 23212705, pp. 537-539.
2)	Jamal Mohsin, and <b>Tandel Yogendra.</b> (2015). "Group performance of geo-encased sand column." Proceeding of International Conference on Advances in Engineering, Mehsana, India.
3)	<b>Tandel Yogendra</b> , Patel Jignesh, Solanki Chandresh and Desai Atul (2015). "Numerical study of behaviour of a geosynthetic reinforce stone column". Proceeding of 8th International Conference on Electrical, Electronics and Civil Engineering, Dubai, UAE. 12 January 2015. ISBN:
4)	Patel Jignesh, <b>Tandel Yogendra</b> , and Solanki Chandresh (2015). "Numerical study of behavior of a group pile made of pervious concrete and stone aggregate". Proceeding of 8th International Conference on Electrical, Electronics and Civil Engineering, Dubai, UAE. 12 January 2015. ISBN:
5)	Patel Pragnesh and <b>Tandel Yogendra</b> (2015). "Comparative study of design of steel Structure by using Indian, British and American standards". International Conference on: "Engineering: Issues, opportunities and Challenges for Development", Bardoli, India, 11 April 2015.
6)	<b>Tandel Y. K.</b> , Pawar R. B., SAngada, S. D. , Chaurya, P. A., and Avtar, A. L. (2017). "Slope Stability of T-shape Deep Mixing Column". 4 <sup>th</sup> International Conference on Multidisciplinary Research & Practice (4ICMRP-2017), Ahmedabad, India, pp. 200-203.
7)	<b>Tandel Yogendra</b> , Abhishek Tiwari, Nairr Sunil S., Prajapati Akshay, Shah Aly M. (2017). "Bearing Capacity of a Footing Soil Reinforcement with Rubber Tyre Waste". 4 <sup>th</sup> International Conference on Multidisciplinary Research & Practice (4ICMRP-2017), Ahmedabad, India, pp. 204-205.

## National Seminar/Conference/Workshop/STTP

1)	<b>Tandel, Y. K.</b> , Solanki, C. H., Desai, A. K. and Desai, M. D. (2011). "Recent advance in reinforced stone column technique." Proceeding of National Conference on Recent Advances in Ground Improvement
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	Techniques, Roorkee, India, 185-194.
2)	<b>Tandel, Y. K.</b> , Solanki, C. H., and Desai, A. K. (2011). "Study on recent development in sand column." Proceeding of National Seminar on Advance in Geotechnical Engineering, Surat, India, 176-181.
3)	<b>Tandel, Y. K.</b> , Solanki, C. H., Desai, A. K. and Desai, M. D. (2011). "An innovative application of stone column for slope stability purpose." Proceeding of National Conference on New horizons for Sustainable Tomorrow, Surat, India, published in CD Rom.
4)	<b>Tandel, Y. K.</b> , Solanki, C. H., and Desai, A. K. (2012). "Application of pervious concrete for strengthening of stone column for ground improvement." Proceeding of National Conference on Structural Engineering Convention-2012 (8th Biennial conference), Surat, India, 177-181.
5)	<b>Tandel, Y. K.</b> , Solanki, C. H., and Desai, A. K. (2013). "Experimental and FEM analysis of reinforced granular column." Proceeding of National Conference on Emerging Vistas of Technology in 21st Century, Baroda, India, 70-74.
6)	<b>Tandel, Y. K.</b> , Solanki, C. H., and Desai, A. K. (2013). "Some studies on ground improvement by Reinforced stone column." Proceeding of Short Term Training Programme on Geotechnical Investigations Interpretations & Improvements, Surat, India.
7)	<b>Tandel, Y. K.</b> , Solanki, C. H., and Desai, A. K. (2014). "Numerical evaluation of parameters affecting the behaviour of stone column under embankment." Proceeding of Short Term Training Programme on Advances in Geotechnical Engineering (AGE-2014), Surat, India, 79-88.
8)	<b>Tandel, Y. K.</b> , Solanki, C. H., and Desai, A. K. (2015). "Full Scale Load Tests on Geosynthetic Reinforced Stone Column." Proceeding of 5 <sup>th</sup> Indian Young Geotechnical Engineers Conference, Vadodara, India, 63-64., ISBN: 978-1-4276-5527-1
9)	<b>Tandel Yogendra</b> and Patel Jignesh (2018). "Slope Stability Of The Embankment Over Geosynthetic Reinforced Stone Column Foundation." National Conference On Challenges in Geotechnical Investigations, Analysis, Design & Construction of Foundations, Goa, India.
10)	Joseph J., Kumar S., Patel J.B., <b>Tandel Y.</b> (2021) Granular Anchor Pile System for Resisting Uplift: A Review. In: Patel S., Solanki C.H., Reddy K.R., Shukla S.K. (eds) Proceedings of the Indian Geotechnical Conference 2019. Lecture Notes in Civil Engineering, vol 136. Springer, Singapore. <a href="https://doi.org/10.1007/978-981-33-6444-8_29">https://doi.org/10.1007/978-981-33-6444-8_29</a> (21/04/2021)

#### Reviewer of Journals

1. International Journal of Engineering (**Scopus**)
2. Jordan Journal of Civil Engineering (**Scopus**)
3. Journal of The Institution of Engineers (India) – Series A (**Scopus**)
4. Computations and Materials in Civil Engineering
5. Engineering Science and Technology, an International Journal (**Scopus**)
6. Open Journal of Civil Engineering
7. International journal of GEOMATE (**SCI/Scopus**)
8. Journal of Engineering Research (**SCI/Scopus**)
9. Journal of Sustainable Construction Materials and Technologies
10. Duzce University Journal of Science and Technology

#### Supervision of M.Tech Students

Sr. No.	Name of the Student	Enrollment No.	Title of Dissertation	Year of completion
1)	Ashesh P. Desai	201204101310001	Feasibility of utilization of waste materials in self-compacting concrete	May 2014
2)	Hitesh K. Dhameliya	201204101310003	Parametric Studies of standard 2-D roof truss configuration	May 2014
3)	Siddharth G. Patel	201204101310005	Studies on limited group behaviour of stone columns	May 2014
4)	Gaurav P. Barot	201204101310010	Study on utilization of waste materials for construction of brick	May 2014
5)	Qureshi Mohammed Ahmed	201204101310011	An experimental study on high strength concrete using fly ash and alccofine	May 2014
6)	Pragnesh J. Patel	201204101310015	Comparative study of various steel standard	May 2014
7)	Bharat N. Vaghela	150180720016	Experimental study on performance of SCC containing lime powder and quarry dust with diutan gum as VMA	June 2017
8)	Mitan B. Kathrotiya	160180720007	Dynamic analysis of Flat Slab Structure Considering Construction Stage	May 2018
9)	Aqib Ayub Parmar	170180720002	Progressive collapse analysis of RC frame with shear wall structure subjected	May 2019

			to tsunami hazard	
10)	Prajapati Rajesh Babubhai	170180720013	Numerical evaluation of rc elevated water tank with braced frame staging considering soil structure interaction	2019
11)	Mittal Shubham Rajesh	170180720011	Seismic performance of in-plan irregular R.C. moment resisting frame with mid pier and multilayered shell element of shear wall modelling	2019
12)	Amaratkumar Ganpatlal Gelot	180180720006	Analysis of cable stayed bridge by considering effect of soil structure interaction	2020
13)	Jignesh Bamania	180180720002	Soil structure interaction analysis of building resting on slope	2021
14)	Hiten Kherani	190180720003	Finite element analysis of FRP deck bridge	2022
15)	Alpesh Rathod	190180720015	Soil structure effects on seismic analysis response of multi storied building	

**I have contributed to the M.Tech dissertation and Ph. D thesis of the following students of Applied Mechanics Department, S. V. National Institute of Technology, Surat. Though they were not officially registered with me as a student, I worked with them.**

Sr. No.	Name of the Student	Degree	Enrollment No.	Title of Dissertation	Year of completion
1)	Paresh Patel	Ph. D	DS12AM005	Some study on influence of vertical load on lateral response of a pile based on numerical and filed load tests	2018
2)	Jignesh Patel	Ph. D	D14AM002	Some studies on performance of pervious concrete column for improving soft ground	2019
3)	Sonu Kumar	M.Tech	P10SM626	Field behavior of Geosynthetic encased sand column	2012
4)	Uttam Kumar	M.Tech	P10SM619	Ground improvement by geosynthetic encased stone column	2012
5)	Paresh Patel	M.Tech Research	R10ST502	Evaluation of stability of slope reinforced with stone column	2013
6)	C. Rajagopal	M.Tech Research	R10ST505	Some studies on comparison of static and dynamic load test of bored pile.	2013
7)	Mohsin Jamal	M.Tech	P11SM014	Model studies on small group behaviour of reinforced sand column	2013
8)	Vivek Kushwaha	M.Tech	P11SM033	Studies of Small Group of Stone Column by Three-Dimensional Numerical Analysis	2013
9)	Maharshi Patel	M.Tech	P11SM009	A Parametric Study of Geosynthetic Reinforced Pile Supported Embankment	2013
10)	Budde	M.Tech	P13SM018	Parametric study on a composite pile made of granular aggregate and pervious concrete using finite element analysis	2015
11)	Vishnu M Prakash	M.Tech	P13SM007	Studies on Various Properties of Pervious Concrete and its Behavior Based on Group Pile Model	2015
12)	Dipin Syam	M.Tech	P13SM009	Behaviour of Embankment on Soft Soil Reinforced with Composite Columns made of Pervious Concrete and Stone Aggregates using 3D FEM	2015

#### **Supervision of B.Tech/B.E. Projects**

Sr. No.	Name of the Student	Title of Dissertation	Year of completion
1)	Dimple Desai (100530106001) Siddharth Rudani (100530106005) Herin Chokhawala (100530106023) Kewal Raval (100530106057) Rushabh Shah (110533106002)	Two-dimensional finite element analysis of anchored stone column	2014
2)	Gondaliya Dharmik (121100106050) Patoliya Akshay (121100106009) Lunagariya Sunny (121100106010) Mavani Jay (121100106012)	Utilization of rice husk ash and geopolymer for stabilization of subgrade soil	2016

	Sanghani Brijesh (121100106058)		
3)	Bhatt Mihir (121100106035) Patel Hardik (121100106003) Rajak Dinesh (121100106047) Ahir Niral (121100106037) Gandhi Vatsal (121100106011)	Utilization of steel slag, sugar cane ash and lime for the brick production	2016
4)	Bamania Amitkumar G. (130180106004) Damor Kamlesh M. (130180106024) Mahida Raghuvir B. (130180106058) Makvana Dixit R. (130180106059)	Slope stability analysis of an embankment rested on geosynthetic enclosed stone column	2017
5)	Patel Vandana B. (150183106029) Chauhan Ankit S. (150183106007) Prajapati Prashant B. (150183106034) Pragtani Nilesh B. (150183106032) Bambhaniya Vipul K. (150183106001)	Bubble Deck System	2018
6)	Prajapati Akshay P. (140180106085) Shah Alay M. (140180106097) Tiwari Abhishek (140180106001) Nair Sunil S. (140180106066)	Bearing Capacity of a footing on soil reinforced with Tyre Waste	2018
7)	Avtar Ajaykumar I. (140180106006) Pawar Ravindra B. (140180106084) Chaurya Pranav A. (140180106023) Sangada Suresh D. (140180106102)	T-shape deep mixing column	2018
8)	Maurya Deepak Ramujagar (160180106057) Dasari Rahul (160180106026) Ladhava Hina Kurajibhai (160180106048) Patel Sejali Dineshbhai (160180106083)	Uplift behavior of pervious concrete pile	2020

#### Invited Lectures Delivered

Sr. No	Topic	Event	Organization	Date
(1)	Overview of PLAXIS software for the various ground improvement techniques	Workshop on “Applications of Software’s for Various Analytical Methods in Design of Structures	Civil Engineering Department, Parul Institute of Engineering and Technology, Baroda	04/09/2013
(2)	Some studies on ground improvement by reinforced stone column	Short Term Training Programme on “Geotechnical Investigations, Interpretations and Improvements	Applied Mechanics Department, S. V. National Institute of Technology, Surat	21/10/2013
(3)	Numerical evaluation of parameters affecting the Behaviour of reinforced stone column under embankment	Short Term Training Programme on Advances in Geotechnical Engineering	Applied Mechanics Department, S. V. National Institute of Technology, Surat	11-20Apr 2014
(4)	Numerical Modeling in Geotechnical Engineering	Guest/Expert lecture	Applied Mechanics Department, S. V. National Institute of Technology, Surat	10/10/2016
(5)	Road embankment: Design Consideration and Examples with GEO5 Software	Two Week TEQIP-II Sponsored STTP on State Of Art Practices For Characterisation Of Pavement Materials And Evaluation Of Pavements	Civil Engineering Department, S. V. National Institute of Technology, Surat	22/10/2016
(6)	Ground Improvement Techniques	Guest/Expert lecture	Civil Engineering Department, Faculty of Engineering Technology and Research, Bardoli	21/04/2017
(7)	Computational Geotechnics with PLAXIS 2D	Short Term Training Programme on Recent Research Trends in Geo-Technical Engineering (RRTGE-2017)	Civil Engineering Department, Marwadi Education Foundation Group of Institute, Rajkot	26/12/2017
(8)	Stability of slopes	Guest/Expert lecture	Civil Engineering Department, GIDC Degree Engineering College, Navsari	24/08/2018
(9)	Student Start-up and	Guest/Expert lecture	GIDC Degree Engineering	01/09/2018

	Innovation policy		College, Navsari	
(10)	Numerical Modelling Of Geosynthetic Reinforced Stone Column	Guest/Expert lecture	Applied Mechanics Department, M. S. University of Baroda, Vadodara	06/10/2018
(11)	Advance Geotechnical Engineering	Guest/Expert lecture	Civil Engineering Department, C. G. Patel Institute of Technology, Bardoli	01/01/2019
(12)	Method of Soil Exploration	Guest/Expert lecture	Civil Engineering Department, GIDC Degree Engineering College, Navsari	04/02/2019
(13)	Soft Ground Behavior and Its Treatment	Guest/Expert lecture	Applied Mechanics Department, GEC Dahod	29/06/2021
(14)	Ground Improvement Using Stone Column	Guest/Expert lecture	Applied Mechanics Department, GEC Dahod	31/08/2021

#### External Examiner

Sr. No.	Institute	M.E./ M.Tech	Title	Student name	Date
1)	Applied Mechanics Department, S. V. National Institute of Technology, Surat	M.Tech	Behavioral study of pervious concrete pile based on model tests	V.P. Jishnu	25/07/2015
2)	Applied Mechanics Department, S. V. National Institute of Technology, Surat	M.Tech	Parametric study on group of composite pile made of pervious concrete and stone aggregates using finite element modeling	Jerin Joseph	25/07/2015
3)	Applied Mechanics Department, S. V. National Institute of Technology, Surat	M.Tech	Three dimensional numerical analysis on single geosynthetic encased stone column in layered soil	Boya Manikanta Reddy	08/07/2016
4)	Applied Mechanics Department, S. V. National Institute of Technology, Surat	M.Tech	Comparative study on different numerical approaches for modeling of pervious concrete-stone column aggregates composite columns for use in rapid embankments construction	Dandu Shiva	08/07/2016
5)	Applied Mechanics Department, S. V. National Institute of Technology, Surat	M.Tech	Model testing of single pervious concrete and composite pile in soft clay	Anshad Ahammad P.	08/07/2016
6)	Applied Mechanics Department, S. V. National Institute of Technology, Surat	M.Tech	Numerical approach to evaluate the applicability of fly ash as an embankment fill material	Akhil A. R.	21/07/2017
7)	Applied Mechanics Department, S. V. National Institute of Technology, Surat	M.Tech	Effect of lime and RBI grade 81 on geotechnical properties of black cotton soil	Khatri Krishnaraj Amarbahadur	21/07/2017
8)	Applied Mechanics Department, S. V. National Institute of Technology, Surat	M.Tech	Stabilization of black cotton soil using cement kiln dust (CKD) and fly ash	Shivraj Khatik	29/07/2017
9)	Applied Mechanics Department, S. V. National Institute of Technology, Surat	M.Tech	The performance of geotextile reinforced clay under unconsolidated undrained triaxial test	Ankit Tyagi	29/07/2017
10)	Applied Mechanics	M.Tech	Strength based study of	Pratik Mohanty	09/07/2018

	Department, S. V. National Institute of Technology, Surat		maximum utilization of industrial solid wastes using fly ash-corex slag stabilized expansive soil		
11)	Applied Mechanics Department, S. V. National Institute of Technology, Surat	M.Tech	Assessment of optimum utilization of industrial waste in stabilization of lime mixed expansive soil	Chaudhari Bhushan Bhavansing	09/07/2018
12)	Applied Mechanics Department, S. V. National Institute of Technology, Surat	M.Tech	Experimental and numerical studies on comparison of single pile of lime column and soil lime column in soft clay	Agashey Hrishikesh Pradeep	09/07/2018
13)	Applied Mechanics Department, S. V. National Institute of Technology, Surat	M.Tech	Numerical and experimental analysis of group action of lime column and soil lime column in soft clay	P. Mahesh Rao	09/07/2018
14)	Applied Mechanics Department, S. V. National Institute of Technology, Surat	M.Tech	Solidification/stabilization of industrial contaminated soil using limestone calcined clay cement and cement	Deepak Kumar Haritwal	21/06/2019
15)	Applied Mechanics Department, S. V. National Institute of Technology, Surat	M.Tech	Experimental and numerical study on load carrying capacity of T-shaped stone column in soft clayey deposit	Modalavalasa Upendra	21/06/2019
16)	Applied Mechanics Department, S. V. National Institute of Technology, Surat	M.Tech	Experimental and numerical study of pile subjected to static and cyclic loading constructed on sloping ground	Dinesh Bishnoi	21/06/2019

#### Experiments/Computational model added in curriculum

- ❖ Numerical analysis of a strip footing
- ❖ Numerical analysis of a pile

#### Seminar/Conference/Workshop/Webinar Attended

Sr. No.	Institute	Title	Period		
			From	To	Duration
1)	S. V. National Institute of Technology, Surat	Advances in Steel Structures	8/6/2007	9/6/2007	2 Days
2)	IGS, Baroda Chapter, Baroda	Geodrain Applications in Civil Engineering Practice	14/6/2008	-	1 Day
3)	JNTU College of Engineering & IGS Hyderabad Chapter	Geotechnics for Infra-Irrigation and Tall Structures	21/11/2009	-	1 Day
4)	S. V. National Institute of Technology, Surat	Wind Engineering	5/11/2009	6/11/2009	2 Days
5)	R.V.R. & J.C. College of Engineering, Guntur, Andhra Pradesh, IGC Guntur	Geotechnics infrastructure Development	18/2/2010	20/2/2010	3 Days
6)	IGS, Surat Chapter & S. V. National Institute of Technology, Surat	Geotechnical Investigations & Case Studies	5/6/2010	-	1 Day
7)	Birla Vishvakarma Mahavidyalaya, Vallabh Vidyanagar	Fly Ash/Futuristic Materials in Civil Engineering Construction for Sustainable Development	12/8/2010	-	1 Day



8)	IGS Surat chapter & S. V. National Institute of Technology, Surat	Geotechnical Investigations, Interpretations & Improvements (GIII-10)	23/10/2010	-	1 Day
9)	The institute of Engineers (India), Gujarat State Center, Ahmedabad	Geosynthetics-Innovative and Environmentally Sustainable Solution for Civil Engineering Projects	27/11/2010	28/11/2010	2 Day
10)	Sarvajanik College of Engineering and Technology, Surat	New Horizons for Sustainable Tomorrow	18/2/2011	19/2/2011	2 Days
11)	IIT Madras	Introductory Course on Geosynthetics	22/9/2011	-	1 Day
12)	IIT Madras	Geosynthetics India'11	23/9/2011	24/9/2011	2 Days
13)	IGS Surat Chapter & S. V. National Institute of Technology, Surat	Advances in Geotechnical engineering (AGE-2011)	8/10/2011	9/10/2011	2 Days
14)	MACCAFERRI, Webinar	MSE Walls & RSS Design and Installation	23/5/2012	-	1 Day
15)	S. V. National Institute of Technology, Surat	Structural Engineering Convention-2012	19/12/2012	21/12/2012	3 days
16)	S. V. National Institute of Technology, Surat	Finishing School on Overview of ground Improvement Techniques	23/4/2013	-	1 Day
17)	The Institution of Engineers, Roorkee Local Centre, Roorkee	Ground improvement techniques for difficult ground conditions	16/4/2013	-	1 Day
18)	Parul Institute of Engineering & Technology and Parul Institute of Technology, Baroda	National conference on Emerging Vistas of Technology in 21 <sup>st</sup> Century	10/5/2013	11/5/2013	2 Days
19)	IGS Surat Chapter & S. V. National Institute of Technology, Surat	Advances in Geotechnical engineering (AGE-2013)	8/6/2013	9/6/2013	2 Days
20)	Applied Mechanics Department, S. V. National Institute of Technology, Surat	Finishing School cum Workshop on Ground Improvement Techniques	11/2/2014	12/2/2014	2 Days
21)	Research and Scientific Innovation Society, India	International Conference on Multidisciplinary Research & Practice	30/11/2014	-	1 Day
22)	IGS Baroda Chapter, Vadodara	5 <sup>th</sup> Indian Young Geotechnical Engineers Conference	14/03/2015	15/03/2015	2 Days
23)	IGS Surat Chapter & S. V. National Institute of Technology, Surat	Pile Foundations - Advances In Design And Construction Practices	27/05/2017	28/05/2017	2 Days
24)	IGS Surat Chapter & S. V. National Institute of Technology, Surat	Advances in Geotechnical Engineering (Age 2017)	04/11/2017	-	1 Day
25)	GIDC Degree Engineering College, Navsari	Start-up & Innovation Protothon	24/11/2017	-	1 Day
26)	IGS Surat Chapter & S. V. National Institute of Technology, Surat	Conceptual Soil Mechanics	03/02/2018	-	1 Day
27)	Goa Engineering College, Farmagudi Goa; IGS Goa Chapter	Challenges in Geotechnical Investigations, Analysis, Design & Construction of Foundations	13/04/2018	14/04/2018	2 Days

**Summer/Winter School/Training Courses Attended**

Sr. No.	Institute	Title	Period		
			From	To	Duration
1)	DATABANK, Computer Education, Navsari	Certificate Course in AutoCAD	25/1/2007	25/4/2007	Three month
2)	S. V. National Institute of Technology, Surat	Software Applications & Web-based Learning Tools in Structural Engineering	7/7/2008	11/7/2008	5 Days (1 Week)
3)	S. V. National Institute of Technology, Surat	Advance in Geotechnical Engineering	29/12/2008	2/1/2009	5 Days (1 Week)
4)	S. V. National Institute of Technology, Surat	Geotechnical Investigations Interpretations & Improvements	10/8/2009	14/8/2009	5 Days (1 Week)
5)	S. V. National Institute of Technology, Surat	Geotechnology for Infrastructure Development	4/1/2010	8/1/2010	5 Days (1 Week)
6)	S. V. National Institute of Technology, Surat	Recent advances in concrete technology	25/1/2010	29/1/2010	5 Days (1 Week)
7)	IIT Gandhinagar	Short-Course on Geotechnical Aspects of Earthquake Engineering	8/4/2011	11/4/2011	4 Days
8)	Ram Caddsys Pvt Ltd & IIT Bombay	Standard Course On Computational Geotechnics	18/9/2012	21/9/2012	4 Days
9)	S. V. National Institute of Technology, Surat	Geotechnical Investigations, Interpretations and Improvements (GIII-13)	18/10/2013	22/10/2013	5 Days (1 Week)
10)	S. V. National Institute of Technology, Surat	Geotechnical Investigations, Interpretations & Improvements (GIII-2016)	08/04/2016	09/04/2016	2 Days
11)	S. V. National Institute of Technology, Surat	Recent Advances in Concrete Technology and Testing of materials	19/12/2016	24/12/2016	6 Days (1 Week)
12)	NITTTR, Bhopal	Induction Phase-I	20/03/2017	31/03/2017	Two Week
13)	Government Engineering College, Dahod	Advances in Civil and Structural Engineering	26/02/2018	02/03/2018	5 Days (1 Week)
14)	DTE, Gandhinagar	Emerging Trends in Structural Geotechnical Engineering	30/07/2018	13/08/2018	5 Days (1 Week)
15)	NITTTR, Bhopal (at IITRAM)	NBA Accreditation	14/10/2019	18/10/2019	5 Days (1 Week)
16)	NITTTR, Bhopal Extension Centre Ahmedabad	Induction Phase-II	02/03/2020	13/03/2020	Two Week
17)	Gujarat Student Startup and Innovation Hub	Comprehensive Online Intellectual Property Rights (IPR)	06/07/2020	14/09/2020	Two Week
18)	Knowledge Consortium of Gujarat	United Digital Advanced Yearlong Academic Method of Learning	28/07/2020	18/08/2020	Two Week
19)	GEC, Dahod	Concrete Technology and Sustainable Construction Practices	21/09/2020	25/09/2020	5 Days (1 Week)
20)	S. V. National Institute of Technology, Surat and Madan Mohan Malaviya University of Technology, Gorakhpur	Advanced Research Topics in Geotechnical and Structural Engineering - ARTGS 2020 (Online)	28/11/2020	02/12/2020	5 Days (1 Week)
21)	GEC, Dahod (Virtual)	Fundamentals of Geotechnical and Structural Engineering for	28/06/2021	02/07/2021	5 Days (1 Week)

		Sustainable Infrastructure Development			
22)	GEC, Dahod (Virtual)	Fundamentals of Geotechnical and Structural Engineering for Sustainable Infrastructure Development	30/08/2021	03/09/2021	5 Days (1 Week)

#### Conference/Seminar/Training programme organized

Sr. No.	Title	Role	Period		
			From	To	Duration
1)	Emerging Start-up & Innovation in Engineering & Technology	Organising Secretary	05/10/2018	-	1 Day
2)	Fundamentals of Geotechnical and Structural Engineering for Sustainable Infrastructure Development	Co-ordinator	28/06/2021	02/07/2021	5 Days (1 Week)
3)	Fundamentals of Geotechnical and Structural Engineering for Sustainable Infrastructure Development	Co-ordinator	30/08/2021	03/09/2021	5 Days (1 Week)

#### Outreach Activities

- ❖ Jury for “VISVESMRUTI-2013” at Faculty of Engineering Technology and Research, Bardoli, in 2013.
- ❖ Session Co-Chair for the Technical Session –VIII in National Conference on “Recent Advances in Civil Engineering-2016” during 5th-6th March 2016. (Credit points: 1) (Remarks:
- ❖ Subject expert for the interview of Lecturer in Civil Engineering Department at Jayvantrai Harrai Desai Polytechnic, Surat on 8March 2015. (Credit points: 1) (Remarks:
- ❖ Subject expert for the interview of Assistant Professor in Civil Engineering Department at Pacific School of Engineering, Surat on 26 March 2016. (Credit points: 1) (Remarks:

#### Award

- ❖ Faculty achievement award for the year 2014-15 for publishing two books; “Geotechnics and Applied Geology” and “Disaster Management”.
- ❖ Faculty achievement award for the year 2014-15 for getting grant for two reseach projects; “Utilization of rice husk ash and geopolymer for stabilization of subgrade soil” and Utilization of steel slag, sugar cane ash and dolime for the brick production” from Gujarat Council on Science & Technology (GUJCOST), Department of Science and Technology, Govt. of Gujarat.

#### Membership

- ❖ Life Member of Indian Geotechnical Society, LM 2693, India
- ❖ Life Member for Indian Society of Technical Education, LM 56786, India
- ❖ Life Member of the Institution of Engineers (India), MIE 1511259, India

#### Administrative Works

- ❖ Coordinator, Post Graduate Course Curriculum Committee from July 2013 to September 2015 at CGPIT, Bardoli.
- ❖ Coordinator, Post Graduate Syllabus Committee from July 2013 to September 2015 at CGPIT, Bardoli.
- ❖ Coordinator, Post Graduate Time Table Committee from July 2013 to September 2015 at CGPIT, Bardoli.
- ❖ Member, ISTE, CGPIT, Bardoli Chapter (GJ-59) from August 2013 to September 2015 at CGPIT, Bardoli.
- ❖ Coordinator, Bridge-o-Build Event of Sci-Clone 2014, Technical Event organized by at CGPIT, Bardoli during 4-5 March 2014.
- ❖ Co-coordinator for the Advertisement and Sponsorship for the event Profusion 2015 and 2016 for the Annual College Function at GDEC, Navsari.
- ❖ Co-coordinator of the Training and Placement for the year 2014-15 at GDEC, Navsari.
- ❖ Chairman, M.E. Dissertation Review Committee for the academic year 2016-17 at GEC, Dahod.
- ❖ Mid-Semester, Coordinator, GEC, Dahod.
- ❖ Member, Canteen committee, GEC, Dahod.
- ❖ Co-coordinator, SSIP, GEC, Dahod.
- ❖ Convenor, Canteen, GEC, Dahod.