Dr. Jitesh T. Chavda

PhD (IIT Madras), MTech, BE, Diploma, PDF (IIT Madras), MIGS, AMIE, MISET, MDFI, MISSMGE, MIRC **Last update: 17/12/2025**

Assistant Professor (Grade I, Level 12, AGP 8000)
Department of Civil Engineering
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Research Area of Interest

- Computational Geomechanics
- Constitutive Modelling in Geotechnics
- Physical Modelling in Geotechnical Engineering
- Use of Image Analysis in Geotechnical Engineering
- Deep Foundations
- Deep Excavations
- Seismic Hazard Analysis
- Dynamic Soil Properties
- Conservation of Heritage Structures

Post-Doctoral Fellow [March 2019 – September 2019] IIT Madras

Ph.D. - Geotechnical Engineering [2015-2019] IIT Madras

M.Tech. - Soil Mechanics & Foundation Eng. [2012-2014] Sardar Vallabhbhai National Institute of Technology, Surat

B.E. (Civil Engineering) [2009-2012] University of Mumbai

Diploma in Civil Engineering [2005-2009] Shri Bhagubhai Mafatlal Polytechnic-Mumbai (with 1 year In-plant training)

ACADEMIC QUALIFICATIONS

Degree/Certificate	Institute/University	Year of Passing	CGPA/Marks
Ph.D. (Geotechnical Eng.)	IIT Madras	2019	9.50
MTech. - SMFE	NIT Surat	2014	9.77
B.E. - Civil	University of Mumbai	2012	78.53%
Diploma - Civil	SBM Polytechnic-Mumbai	2009	80.71%
S.S.C. (10^{th} std)	Maharashtra State Board - English Medium	2005	76.66%

SMFE-Soil Mechanics and Foundation Engineering

WORK EXPERIENCE

- Assistant Professor (Grade I) – Department of Civil Engineering, SV National Institute of Technology Surat. Period: 23/09/2023 till present
- Assistant Professor (Grade II) – Department of Civil Engineering, SV National Institute of Technology Surat. Period: 15/10/2019 to 22/09/2023
- Post Doctoral Fellow, Department of Civil Engineering, IIT Madras. Period: 20/03/2019 to 19/09/2019
- Project Associate: Department of Earthquake Engineering, IIT Roorkee. Period: 13/10/2014 to 13/12/2014
- Assistant Professor, Department of Civil Engineering, Rizvi College of Engineering, Mumbai. Period: 08/07/2014 to 08/10/2014
- Trainee Engineer, SPACE ENGINEERS, Mumbai. Period: 1/12/2007 to 31/05/2008
- Trainee Engineer, UNIVERSAL CONSULTANT, Mumbai. Period: 1/12/2008 to 31/05/2009

PATENT / DESIGN

- The design registration of "*Experimental setup for the measurement of the plane strain angle of repose of sand with varying relative density*" is received by Patent Office, Kolkata, India. Inventors: Jitesh T. Chavda and Vishnuvardhan Mandala. Application No. 361992-001, CBR Number 200188, CBR Date 05/04/2022, Journal No. 25/2022, Journal Date 24/06/2022.
- The design registration of "*Loading frame for geotechnical testing*" is received by Patent Office, Kolkata, India. Inventors: Jitesh T. Chavda. Design No. 379045-001, Date 10/02/2023. CBR Number 200188, CBR Date 05/04/2022, Journal No. 25/2022, Journal Date 24/06/2022.
- The design registration of "*Tank for testing of finite and infinite slope stability of soil*" is received by Patent Office, Kolkata, India. Inventors: Jitesh T. Chavda and Kritesh Chouhan. Application No. 379044-001, CBR Number 201902, CBR Date 10/02/2023.

ACHIEVEMENTS

- IGS-Shri B.N. Gupta Biennial Award for the paper titled "The Ultimate Bearing Capacity of Ring Footing with Inclined Base" by Jitesh T. Chavda published in the Proceedings of Indian Geotechnical Conference 2021 confer by Indian Geotechnical Society, presented at IGC 2023, IIT Roorkee, India.
- Bright Spark Lecture Award 2023 during Indian Geotechnical Conference 2023 at IIT Roorkee in December 2023. Delivered a keynote lecture on "Application of Image Analysis in Geotechnical Engineering" under the banner of ISSMGE and IGS at IGC 23 as a Bright Spark Lecture Award. Link to this lecture is available at: https://www.issmge.org/article/bright-sparks-lectures-indian-geotechnical-conference-2023-roorkee-india
- Best Paper Award: in three days International Conference on Advancement in Structural & Geotechnical Engineering (ASGE'22), secured second position for the research paper titled "A Review on Tunnelling Induced Ground Settlements in Clayey Soil" held at Indus University, Ahmedabad during 25th - 27th August, 2022.

- Nominated as a Secretary of Technical Committee 301 Historic Sites, International Society of Soil Mechanics and Geotechnical Engineering (ISSMGE).
- Awarded "Emerging Scientist Award" in the International Scientist Awards on Engineering, Science and Medicine – INSO Awards, organised by VDGOOD Professional Association (year 2021-2022), awarded in February 2022.
- Best Paper Award: Indian Geotechnical Conference 2019, Technical Session 1-4, organised by Indian Geotechnical Society Surat Chapter and SVNIT Surat.
- Institute Gold Medal for securing first position at Master of Technology in Civil Engineering with specialisation in Soil Mechanics and Foundation Engineering - SVNIT Surat.
- Recipient of "Mrs. and Mr. M. D. Desai award of Cash Prize Rs. 15000/-", presented on the 12th Convocation SVNIT Surat (1st February 2015).
- 2nd rank in academics in Second year of B.E. Civil.
- 1st rank in Bridge making with popsicle sticks at the Annual Sports and Cultural Fest 2011-2012 during B.E. Civil.
- 3rd rank in academics in Final year of B.E. Civil.

ADMINISTRATIVE DUTIES

- Faculty Incharge Construction and Maintenance – I [Institute Level]
- Exam Coordinator [Department Level]
- Committee member for Analysis of Results [Department Level]
- Committee member for Syllabus revision [Department Level]
- Committee member for Anti-Ragging [Institute Level]
- Laboratory Incharge – Computational Geomechanics Lab. [Department Level]
- Laboratory Incharge – Rock Mechanics Lab. [Department Level]
- Committee member for Scrutiny of various post - Recruitments [Institute Level]
- DRCC Member, DoCE [Department Level]
- Indirect Assessment – for UG Accreditation [Department Level]
- Hostel Warden, Atal Bihari Vajpayee Bhavan [Institute Level]

Ph. D. THESIS: Experimental and Numerical Studies on Bearing Capacity of Circular Open Caissons

POST GRADUATE DISSERTATION: Study on Behaviour of Pile Wall used as Retention System for Deep Excavation: Experimental and Numerical Study

UNDER-GRADUATE PROJECT: Analysis and Design of Composite-Dam

DIPLOMA PROJECT: Extension of Building using HILTI Technique

PUBLICATIONS

Journal Publications

1. Rai, H., **Chavda, J. T.** (2025) Evaluation of Drained Stability Factors for Circular and Ring Shape Trapdoors using Finite Element Limit Analysis. *Indian Geotechnical Journal*. https://doi.org/10.1007/s40098-025-01467-1 . Publisher: Springer (**SCOPUS**)
2. Patel, D., **Chavda, J. T.,** Joshi NK., Chatra A. (2025) Numerical evaluation of undrained bearing capacity of unconnected strip and circular skirted footings. *Transportation Infrastructure Geotechnology*, https://doi.org/10.1007/s40515-025-00768-5 Publisher: Springer (**SCOPUS**)

3. Kumar, R., **Chavda, J. T.** (2025). Observations on deterministic seismic hazard analysis for the study region, Gujarat, *Arabian Journal of Geosciences*, https://doi.org/10.1007/s12517-025-12305-2 Publisher: Springer
4. Chouhan, K., **Chavda, J. T.** (2025). An Experimental Approach to Simulate Large Scale 1g Finite Slope Failure, *Transportation Infrastructure Geotechnology*, https://doi.org/10.1007/s40515-025-00613-9 Publisher: Springer (**SCOPUS**)
5. Patil, K., Chavda, J. T., Kumar, A. (2025) A Comprehensive Review on Indian Coal Mine Overburden as Subballast for Railway Infrastructure. *Applied Earth Science: Transactions of the Institutions of Mining and Metallurgy*. https://doi.org/10.1177/25726838251337217 Publisher: SAGE (**SCOPUS**)
6. Thorat, N. Chavda, J. T., Alzabeebee, S., Shukla, S. J. (2025) Experimental and Numerical Investigation on Heave Evaluation for Expansive Soil Treated with Lime. *Ground Improvement (Proceedings of the ICE)*. https://doi.org/10.1680/jgrim.24.00013 Publisher: ICE London (**SCOPUS**)
7. Dalal, P. **Chavda, J. T.,** Solanki, C. H. (2024) FELA Evaluation of Uplift, Lateral and Inclined Capacity of Buried Pipeline in Layered Clays, *Journal of Pipeline Science and Engineering*, https://doi.org/10.1016/j.jpse.2024.100226. Publisher: Elsevier (**SCOPUS and SCI**)
8. Kachhadiya, N., **Chavda, J. T.,** Joshi, N. H. (2024) Evaluation of Bearing Capacity of Strip Footing on Grouted-Rockmass using FELA, *Indian Geotechnical Journal*. https://doi.org/10.1007/s40098-024-01062-w Publisher: Springer (**SCOPUS**)
9. Rupani, H., **Chavda, J. T.** (2024). Application of Image Analysis Technique in Visualization of Failure During the Testing of Materials, *Strength of Materials*, https://doi.org/10.1007/s11223-024-00658-0, Publisher: Springer (**SCI and SCOPUS**)
10. **Chavda, J. T.,** Jitchaijaroen, W., Banyong, R., Keawsawasvong, S., Jamsawang, P. (2024) FELA evaluated bearing capacity factors for circular, planar, and interfering cutting edges of open caisson. *Ships and Offshore Structures*, https://doi.org/10.1080/17445302.2024.2386889, Publisher: Taylor & Francis (**SCI and SCOPUS**)
11. Alzabeebee, S., Ismael, B, **Chavda, J. T.,** Keawsawasvong, S. (2024). Effect of Subbase Stabilization on the Bearing Capacity of Footing Resting on Clayey Soil, *Transportation Infrastructure Geotechnology*, https://doi.org/10.1007/s40515-024-00407-5, Publisher: Springer (**SCOPUS**)
12. Akabari, B., **Chavda, J. T.,** Jitchaijaroen, W., Keawsawasvong, S., Joshi, N. H. (2024) Drained Bearing Capacity of Skirted Circular and Ring Footings with Varying Depth of Skirts. *Transportation Infrastructure Geotechnology*, https://doi.org/10.1007/s40515-024-00395-6 Publisher: Springer (**SCOPUS**)
13. Alzabeebee, S., Ismael, B, Keawsawasvong, S., **Chavda, J. T.** (2024) Finite element and evolutionary polynomial regression analyses of the effect of a cavity on the bearing capacity factor N_c of strip footing, *Modeling Earth Systems and Environment*. https://doi.org/10.1007/s40808-024-01985-6 Publisher: Springer (**SCOPUS**)
14. Suppakul R, **Chavda, J. T.,** Jitchaijaroen, W., Keawsawasvong, S., Rattanadecho, P. (2024) Soft Computing-Based Models for Estimating Undrained Bearing Capacity Factor of Cutting Face of Open Caisson in Heterogenous Clay, *Geotechnical and Geological Engineering*, https://doi.org/10.1007/s10706-024-02789-2 Publisher: Springer (**SCOPUS**)
15. Bambhaniya, C., **Chavda, J. T.,** Patel, J. B. (2023) Observations on Tensile Testing of Intact and Slitted Geotextiles through Image Analysis, *Geosynthetics International*, https://doi.org/10.1680/jgein.23.00113 Publisher: ICE London (**SCI and SCOPUS**)
16. Lai, V. Q., Chauhan, V. B., Keawsawasvong, S., Sangjinda, K., **Chavda, J. T.**, Mase L. Z. (2023) An extreme learning neural network approach for seismic bearing capacity estimation of planar caissons in nonhomogeneous clays, *Earth Science Informatics*, https://doi.org/10.1007/s12145-023-01175-5 Publisher: Springer (**SCI and SCOPUS**)

17. Kounlavong, K., Lai, V. Q., **Chavda, J. T.**, Banyong, R., Jamsawang, P., Keawsawasvong, S. (2023) Application of artificial neural networks for predicting lateral and uplift capacity of buried rectangular box carrying pipelines, *Marine Georesources & Geotechnology*, https://doi.org/10.1080/1064119X.2023.2300046 Publisher: Taylor & Francis (**SCI and SCOPUS**)
18. Samadhiya, Vaibhav and **Chavda, J. T.** (2023). Numerical investigations on stability of 3D soil slopes with different boundary conditions, *Indian Geotechnical Journal*. https://doi.org/10.1007/s40098-023-00811-7 Publisher: Springer (**SCOPUS**)
19. Chouhan, K., **Chavda, J. T.** (2023) A Review on Digital Image Correlation in Experimental Geotechnics, *Indian Geotechnical Journal*. https://doi.org/10.1007/s40098-023-00783-8 Publisher: Springer (**SCOPUS**)
20. Rai, H., **Chavda, J. T.** (2023) Evaluation of drained stability of active and passive trapdoors for horizontal and inclined soil bed using Finite element limit analysis. *Transportation Infrastructure Geotechnology*, https://doi.org/10.1007/s40515-023-00336-9 Publisher: Springer (**SCOPUS**)
21. Chouhan, K., Rai, H., **Chavda, J. T.** (2023) Recommendations on use of DIC technique in 1g geotechnical engineering experiments, *Geotechnical Testing Journal*, https://doi.org/10.1520/GTJ20220119, Publisher: ASTM (**SCI and SCOPUS**)
22. Regunta, M., Karthik, A. V. R., **Chavda, J. T.** (2023) Bearing capacity of strip, circular and ring footings on limited depth of soil, *Journal of Geoengineering*, http://dx.doi.org/10.6310/jog.202312_18(4).4 Publisher: Taiwan Geotechnical Society (**SCOPUS**)
23. Jitchaijaroen, W., Wipulanusat, W., Keawsawasvong, S., **Chavda, J. T.**, Ramjan, S., Sunkpho, J. (2023) Stability evaluation of elliptical tunnels in natural clays by integrating FELA and ANN. *Results in Engineering*, https://doi.org/10.1016/j.rineng.2023.101280. Publisher: Elsevier (**SCOPUS**)
24. **Chavda, J. T.,** Jitchaijaroen, W., Keawsawasvong, S., Rattanadecho, P. (2023) FELA evaluation of undrained bearing capacity of cutting edge of circular open caisson. *Ships and Offshore Structures*, https://doi.org/10.1080/17445302.2023.2225952 Publisher: Taylor & Francis (**SCI and SCOPUS**)
25. Talikoti, C, Alzabeebee, S., **Chavda, J. T.**, (2023) Bearing capacity factors of single and double strip footings placed over an embankment, *International Journal of Computational Materials Science and Engineering*, https://doi.org/10.1142/S2047684123500318. Publisher: World Scientific (**SCOPUS**)
26. Rai, H., **Chavda, J. T.**, Keawsawasvong, S., Sangjinda, K., and Jamsawang, P. (2023) FELA evaluation of undrained stability of active dual trapdoors in non-homogenous soil. *Indian Geotechnical Journal*. https://doi.org/10.1007/s40098-023-00741-4. Publisher: Springer (**SCOPUS**)
27. Lai, V. Q., Kounlavong, K., **Chavda, J.T.**, Jamsawang, P., Keawsawasvong, S. (2023) Stability analysis of buried pipelines under combined uplift and lateral forces using FELA and ANN, *Applied Ocean Research*, https://doi.org/10.1016/j.apor.2023.103568 Publisher: Elsevier (**SCI and SCOPUS**)
28. Alzabeebee, S., Alshibany, SM**, Chavda, J. T.**, Keawsawasvong, S. (2023). Numerical investigation of the effect of conventional cut-and-fill process and tire-derived aggregate placed on top of buried concrete pipe on the pavement deflection, *Transportation Infrastructure Geotechnology*, https://doi.org/10.1007/s40515-023-00294-2 Publisher: Springer (**SCOPUS**)
29. Lai, V.Q., Jitchaijaroen, W., Keawsawasvong, S., **Chavda, J.T.**, Sae-Long, W., Limkatanyu, S. (2023) Application of ANN and FELA for predicting bearing capacity of shell foundations on sand, *International Journal of Geosynthetics and Ground Engineering*, https://doi.org/10.1007/s40891-023-00437-y, Publisher: Springer (**SCOPUS**)
30. Chouhan, K., Lai, V.Q., **Chavda, J. T.,** Yoonirundorn, K., and Keawsawasvong, S. (2023). Evaluation of bearing capacity of ring footing with varying base roughness using finite element limit analysis, *Transportation Infrastructure Geotechnology*, https://doi.org/10.1007/s40515-023-00286-2, Publisher: Springer (**SCOPUS**)

31. Ola, Y, Alzabeebee, S., **Chavda, J. T.**, (2023) Numerical Evaluation of Effective CBR for two-layered soil media, *International Journal of Pavement Research and Technology*, https://doi.org/10.1007/s42947-023-00301-2, Publisher: Springer (**SCOPUS**)
32. Chouhan, K., Lai, V.Q., **Chavda, J. T.,** Yoonirundorn, K., and Keawsawasvong, S. (2023). Evaluation of vertical bearing capacity factors for conical footing with varying base roughness using FELA and MARS model, *Ships and Offshore Structures*, 19(4), 471-483. https://doi.org/10.1080/17445302.2023.2177030 Publisher: Taylor & Francis (**SCI and SCOPUS**)
33. Chouhan, K., and **Chavda, J. T.** (2023). A novel approach to simulate cone penetration test using conventional FEM, *Geotechnical and Geological Engineering*, **41**, 1439–1451 (2023) https://doi.org/10.1007/s10706-022-02346-9 Publisher: Springer (**SCOPUS**)
34. Mandala, V., Patel, K. A. and **Chavda, J. T.** (2022). Numerical investigations on response of multistorey building frames subjected to adjacent unsupported excavations, *Geotechnical and Geological Engineering*, https://doi.org/10.1007/s10706-022-02331-2, Publisher: Springer (**SCOPUS**)
35. Keawsawasvong, S., Chaonoi, W., **Chavda, J. T.** Mase, L Z, Banyong, R. (2022) Undrained lateral resistance of fixed-headed rectangular and circular piles, *Transportation Infrastructure Geotechnology*, https://doi.org/10.1007/s40515-022-00260-4, Publisher: Springer (**SCOPUS**)
36. Parimi, A. N., Keawsawasvong, S., **Chavda, J. T.** (2022) Numerical evaluation of bearing capacity of strip footing on rockmass slope, *Transportation Infrastructure Geotechnology*, pp 1-17, https://doi.org/10.1007/s40515-022-00255-1, Publisher: Springer (**SCOPUS**)
37. Rai, H., Keawsawasvong, S. and **Chavda, J. T.** (2022). Numerical investigations on evaluation of undrained stability of active and passive strip, circular, and annular trapdoors, *Geotechnical and Geological Engineering*, https://doi.org/10.1007/s10706-022-02294-4, Publisher: Springer (**SCOPUS**)
38. Alzabeebee, S., **Chavda, J. T.**, Keawsawasvong, S. (2022) Analysis of bored pile subjected to machine vibration: An insight into the influence of the soil-pile interface coefficient, *Transportation Infrastructure Geotechnology*, pp 1-17; https://doi.org/10.1007/s40515-022-00247-1, Publisher: Springer (**SCOPUS**)
39. Jearsiripongkul, T., Keawsawasvong, S., Banyong, R., Seehavong, S., Sangjinda, K., Thongchom, C., **Chavda, J. T.**, Ngamkhanong, C. (2022) Stability evaluations of shallow horseshoe tunnels based on extreme learning neural network. *Computation* 2022, *10*(6), 81. https://doi.org/10.3390/computation10060081 Publisher: MDPI (**SCOPUS**)
40. **Chavda, J. T.** and Dodagoudar, G. R. (2022) Finite element evaluation of bearing capacity factors for cutting face of open caissons, *International Journal of Geotechnical Engineering,* https://doi.org/10.1080/19386362.2022.2080962. Publisher: Taylor & Francis (**SCOPUS**)
41. Karthik, A. V. R., Regunta, M. and **Chavda, J. T.** (2022) Sensitivity analysis of slope stability using finite element method, *Innovative Infrastructure Solutions,* **7**, Art. No. 184, 15 pp., https://doi.org/10.1007/s41062-022-00782-3 Publisher: Springer (**SCOPUS**)
42. **Chavda, J. T.** and Dodagoudar, G. R. (2022) Experimental studies on a circular open caisson. *International Journal of Physical Modelling in Geotechnics*, **22**(2): 70–87. https://doi.org/10.1680/jphmg.20.00050. Publisher: ICE London (**SCI and SCOPUS**)
43. **Chavda, J. T.** and Dodagoudar, G. R. (2021) On vertical bearing capacity of ring footings: Finite element analysis, observations and recommendations, *International Journal of Geotechnical Engineering,* **15**(10): 1207–1219, https://doi.org/10.1080/19386362.2019.1648737. Publisher: Taylor & Francis (**SCOPUS**)
44. **Chavda, J. T.,** Mishra, S. R. and Dodagoudar, G. R. (2020) Experimental evaluation of ultimate bearing capacity of the cutting edge of open caisson, *International Journal of Physical Modelling in Geotechnics*, **20**(5): 281–294. https://doi.org/10.1680/jphmg.18.00052. Publisher: ICE London (**SCI and SCOPUS**)

45. **Chavda, J. T.** and Dodagoudar, G. R. (2019) Finite element evaluation of vertical bearing capacity factors N'_c, N'_q and N'_γ for ring footings, *Geotechnical and Geological Engineering*, **37**(2), 741-754. https://doi.org/10.1007/s10706-018-0645-1 . Publisher: Springer (**SCOPUS**)
46. **Chavda, J. T.**, Solanki, C. H. and Desai, A. K. (2019) Lateral response of contiguous pile wall subjected to staged excavation: Physical and numerical investigations. *Indian Geotechnical Journal*, **49**(1), 90-99. https://doi.org/10.1007/s40098-017-0267-1. Publisher: Springer (**SCOPUS**)
47. **Chavda, J. T.** and Dodagoudar, G. R. (2018) Finite element evaluation of ultimate capacity of strip footing: Assessment using various constitutive models and sensitivity analysis, *Innovative Infrastructure Solutions,* **3**, Art. No. 15, 10 pp. https://doi.org/10.1007/s41062-017-0121-4. Publisher: Springer (**SCOPUS**)

Conference Proceeding Published as Book Chapter

1. **Chavda, J. T.** and G. R. Dodagoudar (2018). Finite element modelling of extent of failure zone in *c*-φ soil at the cutting edge of open caisson, *Numerical Methods in Geotechnical Engineering IX: Proceedings of the 9th European Conference on Numerical Methods in Geotechnical Engineering*, Porto, Portugal, 25 - 27th June 2018, https://doi.org/10.1201/9781351003629-126, Publisher: Taylor & Francis (**SCOPUS**)
2. **Chavda, J. T.** and G. R. Dodagoudar (2019). Experimental evaluation of failure zone in sand beneath the ring footing and cutting edge of open caisson using image analysis. *Indian Geotechnical Conference 2019*, SVNIT Surat, Gujarat, India, December 2019, https://doi.org/10.1007/978-981-33-6346-5_24. Publisher: Springer (**SCOPUS**)
3. Paul, A., Aishwarya, K.V., Keerthana, M., Satyamurthy, T., **Chavda, J.T.** (2023). Heritage Impact Assessment of the Subordinate Court Complex Near the David Yale and Joseph Hyner's Tomb. In: Muthukkumaran, K., Reddy, C.N.V.S., Joseph, A., Senthamilkumar, S. (eds) Foundation and Forensic Geotechnical Engineering. IGC 2021. *Indian Geotechnical Conference 2021*, Chapter 26. Lecture Notes in Civil Engineering, vol 295. Springer, Singapore. https://doi.org/10.1007/978-981-19-6359-9_26 Publisher: Springer (**SCOPUS**)
4. **Chavda, J.T.** (2023). The Ultimate Bearing Capacity of Ring Footing with Inclined Base. In: Muthukkumaran, K., Reddy, C.N.V.S., Joseph, A., Senthamilkumar, S. (eds) Foundation and Forensic Geotechnical Engineering. IGC 2021. *Indian Geotechnical Conference 2021*, Chapter 23. Lecture Notes in Civil Engineering, vol 295. Springer, Singapore. https://doi.org/10.1007/978-981-19-6359-9_3 Publisher: Springer (**SCOPUS**)
5. Chouhan, K., and **Chavda, J. T.** (2023). A Review on Numerical Simulation of Large Deformation Problems in Geotechnical Engineering. In: Muthukkumaran, K., Ayothiraman, R., Kolathayar, S. (eds) Soil Dynamics, Earthquake and Computational Geotechnical Engineering. IGC 2021, *Indian Geotechnical Conference 2021*. Lecture Notes in Civil Engineering, vol 300. Springer, Singapore. https://doi.org/10.1007/978-981-19-6998-0_16 Publisher: Springer (**SCOPUS**)
6. Rathore, R., Ingle, R., Patil, Y.D., **Chavda, J.T.** (2024). Undrained Uplift Capacity of Under-reamed Pile in Layered Clays. In: Jose, B.T., Sahoo, D.K., Shin, E.C., Choudhury, D., Joseph, A., Pai, R.R. (eds) Proceedings of the Indian Geotechnical Conference 2022 Volume 2. IGC 2022. Lecture Notes in Civil Engineering, vol 477. Springer, Singapore. https://doi.org/10.1007/978-981-97-1741-5_10 Publisher: Springer (**SCOPUS**)
7. **Chavda, J.T.,** Dodagoudar, G.R. (2024). Assessment of Predictive Equations of Extents of Failure Zone in Sand Beneath the Cutting Edge of Open Caisson Using Image Analysis. In: Jose, B.T., Sahoo, D.K., Shin, E.C., Choudhury, D., Joseph, A., Pai, R.R. (eds) Proceedings of the Indian Geotechnical Conference 2022 Volume 2. IGC 2022. Lecture Notes in Civil Engineering, vol 477. Springer, Singapore. https://doi.org/10.1007/978-981-97-1741-5_6 Publisher: Springer (**SCOPUS**)
8. Sankhat, K., **Chavda, J.,** Juneja, A. (2024). Deformation Mode of Geocell–Soil Composite Structure. In: Jose, B.T., Sahoo, D.K., Puppala, A.J., Reddy, C.N.V.S., Abraham, B.M., Vaidya, R. (eds) Proceedings of the Indian Geotechnical Conference 2022 Volume 3. IGC 2022. Lecture Notes in Civil Engineering, vol 478. Springer, Singapore. https://doi.org/10.1007/978-981-97-1745-3_26 Publisher: Springer (**SCOPUS**) Kuldeep Sankhat (U18CE017)

9. Samadhiya, V., Chavda, J.T. (2024). Numerical Investigations on Strip Footing Near Vertical Cut Rockmass Cliff. In: Jose, B.T., Sahoo, D.K., Oommen, T., Muthukkumaran, K., Chandrakaran, S., Santhosh Kumar, T.G. (eds) Proceedings of the Indian Geotechnical Conference 2022 Volume 5. IGC 2022. Lecture Notes in Civil Engineering, vol 483. Springer, Singapore. https://doi.org/10.1007/978-981-97-3389-7_4 Publisher: Springer (**SCOPUS**)
10. Shirol, S.S., **Chavda, J.T.** (2024). Sensitivity Analysis of Stability of Rockmass Slope Using Finite Element Limit Analysis. In: Jose, B.T., Sahoo, D.K., Oommen, T., Muthukkumaran, K., Chandrakaran, S., Santhosh Kumar, T.G. (eds) Proceedings of the Indian Geotechnical Conference 2022 Volume 5. IGC 2022. Lecture Notes in Civil Engineering, vol 483. Springer, Singapore. https://doi.org/10.1007/978-981-97-3389-7_5 Publisher: Springer (**SCOPUS**)
11. Anand, T., Trivedi, R., Nirbhay, P., **Chavda, J.T.**, Menon, A. (2025). Hazard Risk Level Evaluation for Heritage Sites in Gujarat, India. In: Jose, B.T., Sahoo, D.K., Vanapalli, S.K., Solanki, C.H., Balan, K., Pillai, A.G. (eds) Proceedings of the Indian Geotechnical Conference 2022 Volume 9. IGC 2022. Lecture Notes in Civil Engineering, vol 537. Springer, Singapore. https://doi.org/10.1007/978-981-97-6168-5_7 Publisher: Springer (**SCOPUS**)
12. Gandhi, J.C., **Chavda, J.T.,** Thaker, G.P. (2025). Stability Evaluation of Planar and Circular Sheet Pile Wall in Sand and Clay Using Finite Element Limit Analysis. In: Shah, D.L., Shukla, J., Choudhury, D. (eds) Deep Foundations for Infrastructure Development in India, Volume 1. DFIIndia 2023. Lecture Notes in Civil Engineering, vol 619. Springer, Cham. https://doi.org/10.1007/978-3-031-77937-4_4 Publisher: Springer (**SCOPUS**)
13. Dalal, P.R., **Chavda, J.T.** (2025). FELA Evaluation of Drained and Undrained Bearing Capacity Factors for Single and Multiple Strip Footings on Clay with Limited Depth. In: Shah, D.L., Shukla, J., Choudhury, D. (eds) Deep Foundations for Infrastructure Development in India, Volume 2. DFIIndia 2023. Lecture Notes in Civil Engineering, vol 620. Springer, Cham. https://doi.org/10.1007/978-3-031-77933-6_19 Publisher: Springer (**SCOPUS**)
14. Hadiyol, J.M., **Chavda, J.T.** (2025). FE Evaluation of Undrained Uplift Capacity of Strip and Circular Anchors in Layered Clays. In: Shah, D.L., Shukla, J., Choudhury, D. (eds) Deep Foundations for Infrastructure Development in India, Volume 2. DFIIndia 2023. Lecture Notes in Civil Engineering, vol 620. Springer, Cham. https://doi.org/10.1007/978-3-031-77933-6_4 Publisher: Springer (**SCOPUS**)
15. Sawant, T.V., **Chavda, J.T.** (2025). Comparison of Modulus of Subgrade Reaction and CBR from Numerical Simulation. In: Thyagaraj, T., Ravichandran, P.T., Janardhanan, G., Bhuvaneshwari, S., Muttharam, M., Maji, V.B. (eds) Soil Dynamics and Computational Geomechanics. IYGEC 2021. Lecture Notes in Civil Engineering, vol 428. Springer, Singapore. https://doi.org/10.1007/978-981-96-1368-7_27 Publisher: Springer (**SCOPUS**)
16. Karthik, A.V.R., Manideep, R., Chavda, J.T. (2025). Stability Analysis of Concave Slopes Using Finite Element Method. In: Thyagaraj, T., Ravichandran, P.T., Janardhanan, G., Bhuvaneshwari, S., Muttharam, M., Maji, V.B. (eds) Analysis, Design, and Construction Aspects of Geotechnical Structures. IYGEC 2021. Lecture Notes in Civil Engineering, vol 421. Springer, Singapore. https://doi.org/10.1007/978-981-97-9831-5_28 Publisher: Springer (**SCOPUS**)
17. Shukla, N., Chouhan, K., Chavda, J.T. (2025). FE Evaluation of the Effect of the Position of a Bulb on the Undrained Uplift Capacity of a Single and Double Under-Reamed Pile in Clay. In: Chatterjee, K., Pandit, K., Mishra, A. (eds) Foundation Engineering. IGC 2023. Lecture Notes in Civil Engineering, vol 686. Springer, Singapore. https://doi.org/10.1007/978-981-96-8705-3_7 Publisher: Springer (**SCOPUS**)
18. Hadiyol, J.M., Chavda, J.T. (2025). FE Evaluation of Undrained Uplift Capacity of Single, Double, and Multiple Strip Anchors in Clay. In: Pain, A., Jakka, R.S., Chatterjee, K. (eds) Analytical, Physical, and Numerical Modeling in Geotechnical Engineering. IGC 2023. Lecture Notes in Civil Engineering, vol 651. Springer, Singapore. https://doi.org/10.1007/978-981-96-7285-1_2 Publisher: Springer (**SCOPUS**)
19. Chouhan, K., Chavda, J.T. (2025). Efficacy of DIC in Evaluating Displacement Field for Extraction and Slope Failure Problems in Geotechnics. In: Pain, A., Jakka, R.S., Chatterjee, K. (eds) Analytical, Physical, and Numerical Modeling in Geotechnical Engineering. IGC 2023. Lecture Notes in Civil Engineering, vol 651. Springer, Singapore. https://doi.org/10.1007/978-981-96-7285-1_3 Publisher: Springer (**SCOPUS**)
20. Sawant, T., Naik, P., Chavda, J.T. (2025). Development of 3D Models of Heritage Sites Using Image Analysis and Dynamic FE Analysis. In: Maheshwari, P., Bhardwaj, A., Sawant, V.A... (eds) Application of

Soft Computing Techniques in Geotechnical Engineering and Risk Analysis. IGC 2023. Lecture Notes in Civil Engineering, vol 715. Springer, Singapore. https://doi.org/10.1007/978-981-96-9529-4_17

International Conference

21. Rupani, H., and **Chavda, J. T.** (2024). Experimental and FELA evaluation of Uplift Capacity of Strip Anchors in Sand and Failure Mechanism evaluation using Image Processing. *Proceeding of 4th Asia Pacific Conference on Physical Modelling in Geotechnics, ACPMG 2024*, 11 – 13 December 2024 Abu Dhabi, United Arab Emirates. https://doi.org/10.53243/ACPMG2024-56
22. Rupani, H., and **Chavda, J. T.** (2023). FELA Evaluation of Undrained Vertical Bearing Capacity of Ring footings with Skirts. *Proceeding of the 21st Southeast Asian Geotechnical Conference and 4th AGSSEA Conference (SEAGC-AGSSEA 2023)*, Bangkok, Thailand, October 2023.
23. Chouhan, K., and **Chavda, J. T.** (2023). Investigations on Simulation of Finite Slope Failure using Image Analysis and Arbitrary Lagrangian-Eulerian. *Numerical Methods in Geotechnical Engineering 2023*, London, UK, June 2023. https://doi.org/10.53243/NUMGE2023-210 (**SCOPUS** index Proceedings).
24. Dave, B. S., **Chavda, J. T.**, Solanki, C. H., and Desai, A. K. (2023). Experimental Study of Soil Water Characteristic Curve for a Clayey Soil Reinforced with Model Geocell for Freezing-Thawing Cycles. In *E3S Web of Conferences* (Vol. 382, p. 09002). Proceeding of 8th International Conference on Unsaturated Soils, Milos Island, Greece, 2nd-5th May 2023, EDP Sciences. https://doi.org/10.1051/e3sconf/202338209002 (**SCOPUS** index Proceedings).
25. **Chavda, J. T.**, Maheshwari, B. K. and Dodagoudar, G. R. (2015) Effect of number of loading cycles on dynamic properties of Solani river sand. International Conference on Infrastructure Development for Environmental Conservation and Sustenance, INDECS-15, ACE - Hosur, Hosur, 28-30 October 2015.
26. **Chavda, J. T.**, Solanki, C. H. and Desai, A. K. (2015) Numerical study on anchored pile wall deformations. *6th International Geotechnical Symposium on Disaster Mitigation in Special Environmental Conditions,* IIT-Madras, Chennai, January 2015.

National Conference/Seminar

27. Salvi M.G. and **Chavda J.T.** (2023). Evaluation of Undrained Uplift Capacity of Single, Double and Multiple Pipes Buried in Clay using FELA, Proceedings of the Indian Geotechnical Conference 2023, IIT Roorkee, India, December 2023 (Accepted for Springer Publication).
28. Sandhish, R. and **Chavda, J. T.** (2023). Risk Evaluation for the Heritage Sites in Karnataka based on Seismicity of the Region. First National Conference on Modern Construction Practices and Management, 2-3rd June 2023, SVNIT Surat, Gujarat, India.
29. Naik, Pavan. and **Chavda, J. T.** (2023). Hierarchy Order Evaluation of Different Rapid Construction Technologies Using the Analytical Hierarchy Method. First National Conference on Modern Construction Practices and Management, 2-3rd June 2023, SVNIT Surat, Gujarat, India.
30. **Chavda, J. T.**, Paul, A. and Menon, A. (2022). A review on tunnelling induced ground settlements in clayey soil, *Proceedings of the Advances in Structural and Geotechnical Engineering,* Indus Institute of Technology and Engineering, Indus University, Ahmedabad, India, 27 – 28 August 2022, Paper Id 4935.
31. Ola, Y., Keawsawasvong, S. and **Chavda, J. T.** (2022). Evaluation of a correlation between CBR and modulus of subgrade reaction using linear and nonlinear FE analyses, *Proceedings of the Advances in Structural and Geotechnical Engineering*, Indus Institute of Technology and Engineering, Indus University, Ahmedabad, India, 27 – 28 August 2022, Paper Id 7142.
32. Rai, H., Keawsawasvong, S. and **Chavda, J. T.** (2022). A Critical Review on Research Progress in Evaluation of Arching Mechanism in Soil, *Proceedings of the Advances in Structural and Geotechnical Engineering*, Indus Institute of Technology and Engineering, Indus University, Ahmedabad, India, 25 – 27 August 2022, Paper Id 5341.

33. Rupani, H.V. and **Chavda, J. T.** (2022). Undrained Bearing Capacity of Ring Footing Resting on Soil with Limited Depth, *Proceedings of the Advances in Structural and Geotechnical Engineering*, Indus Institute of Technology and Engineering, Indus University, Ahmedabad, India, 27 – 28 August 2022, Paper Id 0934.
34. Niharika, T. and **Chavda, J. T.** (2022). Numerical Evaluation of Depth of Lime Treatment for Expansive Soil, *Proceedings of the Advances in Structural and Geotechnical Engineering*, Indus Institute of Technology and Engineering, Indus University, Ahmedabad, India, 27 – 28 August 2022, Paper Id 9763.
35. Bambhaniya, C. D. and **Chavda, J. T.** (2022). The Stability Evaluation of Convex Soil Slope using Finite Element Method, *Proceedings of the Advances in Structural and Geotechnical Engineering*, Indus Institute of Technology and Engineering, Indus University, Ahmedabad, India, 25 – 27 August 2022, Paper Id 8790.
36. Regunta, M., Karthik, A. V. R. and **Chavda, J. T.** (2021). Finite element evaluation of shape factors and bearing capacity factors for circular footing. *Advances in Construction Technology and Management* (ACTM-2021), College of Engineering Pune, Pune, India, 11-12th March, 2021, 9 Pages.
37. Paul, A., **Chavda, J. T.**, Aishwarya, K.V., Lakshmi, A.K., Menon, A. and Bais, S. (2020). Structural risk assessment methodology for heritage impact assessment. *ICOMOS India Scientific Symposium 2020, Structural and Material Analysis in Built Heritage*, IIT Madras, Chennai, India, May 2020.
38. **Chavda, J. T.** and G. R. Dodagoudar (2018). Extent of failure zone in soil at the cutting edge of open caisson: FE evaluation and regression analysis. *8th Conference on Deep Foundation Technologies for Infrastructure Development in India*, IIT Gandhinagar, Gujarat, India, November 2018. Publisher: Deep Foundation Institute.
39. **Chavda, J. T.** and G. R. Dodagoudar (2017). Evaluation of ultimate capacity of a single barrette using finite element analysis, *Indian Geotechnical Conference 2017*, Guwahati, December 2017, Paper No. Th16_314, 4 pp.
40. **Chavda, J. T.**, Solanki, C. H. and Desai, A. K. (2015) Physical and numerical study on behaviour of pile wall retention system for deep excavation. *Proceedings of the 5th Indian Young Geotechnical Engineers Conference*, M. S. University Baroda, Vadodara, Gujarat, March 2015, 211-212.
41. **Chavda, J. T.**, Solanki, C. H. and Desai, A. K. (2014) Study on behaviour of diaphragm wall used as retention system for deep excavations. *Indian Geotechnical Conference 2014,* JNTU Kakinada, Kakinada, December 2014.
42. **Chavda, J. T.**, Solanki, C. H. and Desai, A. K. (2014) Study on behaviour of pile wall used as retention system for deep excavation: Experimental and numerical study, Technical Note in 10 days STTP on *Advances in Geotechnical Engineering, AGE-2014*, SVNIT Surat, June 2014.
43. Bajaj, K., **Chavda, J. T.** and Vyas, B. (2013) Seismic behaviour of buildings on different types of soil. *Indian Geotechnical Conference 2013,* IIT-Roorkee, December 2013.

CONFERENCES / STTPs / WORKSHOPS / NATIONAL SEMINARS / FINISHING SCHOOLS

1. Indo Korean Workshop on "Geotechnology for Urban Development" 12th December 2012 (Attended)
2. Indian Geotechnical Conference – 2012, IIT-Delhi, December 2012 (Attended)
3. Structural Engineering Convention – 2012, SVNIT Surat, Surat, December 2012 (Attended and Volunteered)
4. Structural Engineering Research Centre - Chennai & Geotech Lab. at IIT-Madras (Visited as educational Trip 2012)
5. National conference on Emerging Trends in Engineering (NCETE-13), January 2013, M. H. Saboo Siddik College of Engineering, Mumbai. (Presented a paper titled *Analysis and design of composite dam*)
6. One day Finishing School on "Overview of Ground Improvement Techniques", SVNIT Surat, Surat, April 2013 (Attended)
7. National Seminar on "Advances in Geotechnical Engineering", SVNIT Surat, Surat, June 2013 (Attended and Volunteered).
8. 5 days Short Term Training Programme on "Geotechnical Investigations, Interpretations and Improvements" ,GIII-13, SVNIT Surat, Surat, October 2013 (Attended)
9. Workshop on Large Diameter Rock Socketed Piles, IIT-Bombay, November 2013 (Attended)
10. International Conference on "Deep Foundation Technologies for Infrastructure Development of India", IIT-Bombay, Mumbai, November 2013 (Attended)

11. Indian Geotechnical Conference 2013, IGC-2013, IIT-Roorkee, December 2013. (Attended and presented a paper titled *Seismic behaviour of building on different types of soil*)
12. Finishing School Cum Workshop on "Ground Improvement Technique", SVNIT Surat, Surat, February 2014 (Attended)
13. Presented a Lecture on "Study on Behaviour of Pile Wall Used as Retention System for Deep Excavation: Experimental & Numerical Study" in 10 days STTP on Advances in Geotechnical Engineering, AGE-2014, SVNIT Surat, Surat, July 2014.
14. One day Seminar and Panel discussion on Geotechnical Infrastructure Engineering and Equipment Technology – 2014, VJTI Mumbai, Mumbai (Attended)
15. 15th Symposium on Earthquake Engineering, IIT Roorkee, Roorkee December 2014, (Attended)
16. International Conference - Infrastructure Developement for Environmental Conservations and Sustenance, INDECS-15, ACE Hosur, Hosur, October 2015 (Presented a paper titled *Effect of number of loading cycles on dynamic properties of Solani river sand*)
17. One day Workshop - Deep Foundations in Liquefiable Soils and Deep Excavation Experiences, IIT Madras, Chennai, December 2016 (Attended)
18. Indian Geotechnical Conference 2016, IGC 2016, IIT Madras, Chennai, December 2016 (Attended)
19. Two days Seminar - Pile Foundations - Advances in Design and Construction Practices, SVNIT Surat, Surat, May 2017 (Attended)
20. 9th European Conference on Numerical Methods in Geotechnical Engineering, Porto, Portugal, 25 - 27th June 2018 (Presented a paper titled *Finite element modelling of extent of failure zone in c-φ soil at the cutting edge of open caisson*)
21. 8th Conference on Deep Foundation Technologies for Infrastructure Development in India, IIT Gandhinagar, Gujarat, India, November 2018 (Presented a paper titled Extent of failure zone in soil at the cutting edge of open caisson: FE evaluation and regression analysis)
22. International Symposium on Geotechnical Aspects of Heritage Structures- 2019, IIT Madras, Chennai, 16th - 17th September 2019 (Attended)
23. One-week Short Term Training Programme on "Pedagogy & Research Methodology (PRM – 2019)" , SVNIT Surat, November 2019 (Attended)
24. Indian Geotechnical Conference 2019, IGC 2019, SVNIT Surat, Gujarat, December 2019 (Attended and Presented a Technical Paper)
25. Transportation Geotechnics, A National Seminar 2023, SVNIT Surat, Gujarat, March 2023 (Attended)
26. *21st Southeast Asian Geotechnical Conference and 4th AGSSEA Conference (SEAGC-AGSSEA 2023)*, Bangkok, Thailand, October 2023. (Attended and Presented a Technical Paper)
27. Indian Geotechnical Conference 2022, IGC 2022, Kochi, December 2022 (Attended and Presented a Technical Paper)
28. Indian Geotechnical Conference 2023, IGC 2023, IIT Roorkee, December 2023 (Attended and Presented a Bright Spark Lecture)
29. Annual Conference Deep Foundation Technologies for Infrastructure Development in India, DFI India 2023 at Vadodara (Attended)
30. International Symposium on Geotechnical Aspect of Heritage Structures 2024 – at NIT Trichy (Attended), 14-16 Feb 2024.
31. Attended Faculty Development Program on "Recent Pedagogies for Better Learning" during 22/07/2024 to 25/07/2024 at SVNIT Surat.
32. Annual Conference Deep Foundation Technologies for Infrastructure Development in India, DFI India 2024 at Goa (Attended) *September 19-21, 2024*
33. *4th Asia Pacific Conference on Physical Modelling in Geotechnics, ACPMG 2024*, 11 – 13 December 2024 Abu Dhabi, United Arab Emirates. (Attended and Presented a Technical Paper)
34. "Geosynthetics and Sustainable Geonaturals in Engineering Applications" on 21-22 April 2025 at IIT Guwahati. Organized by International Geosynthetics Society (India). (Attended).

INVITED LECTURES

1. Presented a Lecture on "Study on Behaviour of Pile Wall Used as Retention System for Deep Excavation: Experimental & Numerical Study" in 10 days STTP on *Advances in Geotechnical Engineering*, AGE-2014, SVNIT Surat, Surat, July 2014.
2. Presented a Lecture on "FE Analysis of Single Pile, Piled-Raft, Single & Group Barrette" in 1-Day Seminar at NIT Warangal, 25th March 2017.
3. Presented a Lecture on "Image Analysis: Application in Geotechnical Engineering" in 5 days STTP on *Exploring Research Topics and Techniques of Technical Writings*, SVNIT Surat, 25th – 29th December 2019.
4. Presented a Lecture on "Some Tips on Preparing Graphs and Making Presentation" in 5 days STTP on *Exploring Research Topics and Techniques of Technical Writings*, SVNIT Surat, 25th – 29th December 2019.
5. Presented a Lecture on "Image Analysis: Applications in Geotechnical Engineering" in Webinar hosted by IGS Guntur Chapter, Andhra Pradesh, 20th April, 2020.
6. Presented a Lecture on "Deep Excavations in Urban Areas" in 5-Days Webinar Series on *Prominent Areas of Civil Engineering* organised by Department of Civil Engineering, Vidyavardhini's College of Engineering & Technology, Vasai, Mumbai, 30th – 17th May 2020.
7. Presented a Lecture on "Deep Excavations Challenges in Urban Areas" in Webinar hosted by Ambalika Institute of Management & Technology, Lucknow, Uttar Pradesh, 30th May, 2020.
8. Presented a Lecture on "Evaluation of Bearing Capacity Factors of Strip and Ring Footings using FEM" in Webinar hosted by IGS Guntur Chapter, Andhra Pradesh, 26th May, 2020.
9. Presented a Lecture on "Well Foundation – An Overview" in Webinar hosted by IGS Guntur Chapter, Andhra Pradesh, 10th July, 2020.
10. Presented a Lecture on "Dynamic Soil Properties" in TEQIP III sponsored 5-Days FDP on *Future Trends in Earthquake Resistant Design of Structures* (FTERDS2020), Department of Civil Engineering, Bundelkhand Institute of Engineering and Technology Jhansi, 17th – 21st August 2020.
11. Presented a Lecture on "Heritage Impact Assessment: Geotechnical Aspects" in TEQIP III sponsored 5-Days STTP on *Urban Heritage Conservation: Issues and Challenges*, Department of Civil Engineering, SVNIT Surat, 31st August – 04th September 2020.
12. Presented a Lecture on "Image Analysis: Applications in Civil Engineering" in TEQIP III sponsored 10-Days STTP on *Assessment of Engineering in Infrastructural Development*, Department of Civil Engineering, Government College of Engineering Jhalawar, 26th October – 04th November 2020.
13. Presented a Lecture on "Applications of Image Analysis in Geotechnical Engineering" in TEQIP III sponsored 5-Days STTP on *Advances in Geotechnical Engineering*, Department of Civil Engineering, SVNIT Surat, 19th November – 23rd November 2020.
14. Presented a Lecture on "Heritage Impact Assessment for Agra Metro" in TEQIP III sponsored 5-Days STTP on *Metro Construction and Management*, Department of Civil Engineering, SVNIT Surat, 14th December – 18th December 2020.
15. Presented a Lecture on "Heritage Impact Assessment for Underground Construction" in AICTE sponsored 5-Days STTP on *Sustainable Materials & Resilient Buildings Philosophy, Design, Implementation, and Performance*, Department of Civil Engineering, Kakatiya Institute of Technology & Science, Warangal, 4th January – 8th January 2021.
16. Presented a Lecture on "Theory of Soil Compressibility and Consolidation Theory" in TEQIP III sponsored expert lecture arranged by Department of Civil Engineering, Government College of Engineering Jhalawar, 25th December – 26th December 2020.
17. Presented a Lecture on "Deep Excavation Challenges" in 5-Days STTP on *Sustainable Development in Civil Engineering* organised by Department of Civil Engineering, M.M.M. University of Technology, Gorakhpur (U.P.), 8th – 12th February 2021.
18. Presented a Lecture on "An Overview on Deep Excavations in Urban Areas" in 1-Day Workshop on *Various Aspects in Civil Engineering* organised by Department of Civil Engineering, G H Raisoni College of Engineering & Management, Pune, 12th February 2021.
19. Presented a Lecture on "Shallow and Deep Foundation Practices for Infrastructure Development" on 15th September 2021 at Civil Engineering Department, St. John College of Engineering and Management, Palghar.
20. Presented a Lecture on "Image Analysis: Applications in Civil Engineering" in Webinar hosted by IGS SVEC Student Chapter, Andhra Pradesh, 18th February, 2022.

21. Presented a lecture on “Applications of Image Analysis” at One-week FDP on "Recent Trends and Advancements for Sustainable Development” at Government College of Engineering Banswara, Rajasthan on 10th March 2022
22. Presented a lecture on “Finite Element Analysis in Engineering Practice” at One-week High-End Workshop on "Application of Statistical Tools and Modelling in Engineering and Science" at SVNIT Surat under SERB DST funding on 12th March 2022
23. Presented a lecture on “Deep Excavations in Urban Areas” at One-week FDP FDP on “Case Studies in Geotechnical Engineering” ISTE Chapter, Presidency University, Bangalore on 17th March 2022
24. Presented an expert lecture on “Advances in Geotechnical Engineering” at SBM Polytechnic, Mumbai on 11th May 2022.
25. Presented a lecture on “Finite Element Analysis of Single Pile, Group of Pile, Contiguous Piles, Pile-Raft, Evaluation of Soil Properties and Modelling issues” for Technical Training program for L&T Engineers on Piling Engineering in online mode from 22nd to 23rd July 2022.
26. Presented an expert lecture on “Technical Writing” for the BTech students of Civil Engineering on 17 October 2022, SVNIT Surat.
27. Presented a Lecture on “Well Foundation – An Overview” to the BTech Civil students from Shri Mata Vaishno Devi University (SMVDU), Kakryal on 09/12/2022 @ 14:00 Hours
28. Presented a lecture on “Well Foundation – An Overview” for Technical Training program for L&T Engineers on Foundation Engineering in online mode from 24th to 25th February 2023.
29. Presented a keynote lecture on “An Overview on Deep Excavations Practices in Urban Areas” for National Conference on "Construction, Sustainable Infrastructure and Valorization of Waste 2023" organized by the Department of Civil Engineering, Gandhi Institute of Excellent Technocrats, Bhubaneswar, India, on 06th & 07th October 2023.
30. Presented a lecture on “Stability of Well Foundation – An Overview” for Technical Training program for L&T Engineers on Recent Advances in Pilling Engineering in online mode from 18th to 21st March 2024..
31. Presented a lecture on “Deep Excavations Practices for Infrastructural Developments” for AICTE ATAL FDP -2024 on "Geo- Environmental Engineering and Sustainable Infrastructure Development" from 08-13 January, 2024, in the Department of Civil Engineering, Medicaps University Indore. 2024, Talk delivered on 08/01/2024.
32. Handled and delivered a keynote for a pre-conference workshop on "Application of AI and image processing in Civil and Geotechnical Engineering" for Civil Engineering Department at Parul University in collaboration with IGS Baroda Student chapter. Talk delivered on 02/05/2024.
33. Delivered a Keynote lecture on “Heritage Impact Assessment” at National Symposium on Recent Advances in Geotechnical Engineering at SV National Institute of Technology Surat, in association of IGS Surat Chapter and GRIMTECH Pvt Ltd. (07/06/2024 - 08/06/2024).
34. Presented a lecture on “Image Processing in Civil Engineering” at One-week FDP 9-13 Sep 2024, on "Recent Trends and Future Scope in Civil Engineering (RTFSCE-2024)” at National Institute of Technology Jamshedpur, Jharkhand, India on 09th September 2024.
35. Presented a lecture on “Innovation in deep excavation practices” at one-week online short-term course (e-STC) organized by the Department of Civil Engineering, NIT Sikkim on "Emerging Materials and Sustainable Civil Engineering Infrastructure Development", scheduled from 13th to 17th September 2024.
36. Presented a lecture on “Role of PLAXIS Software in Foundation Analysis” at one day hands-on training session (one day workshop) on “PLAXIS 2D/3D Software: Deep Excavation and Pile-Raft Design and Analysis” at SVNIT Surat in association with Indian Geotechnical Society Surat Chapter & Bentley Systems India Pvt. Ltd. on 27th January 2025.
37. Presented a lecture on “Image Analysis: Some Insights for Experimental Geotechnics” at One-week ATAL Faculty Development Program on *“Environmental Geotechnology: Advances and Sustainable Practices”* held from 16th to 21st June 2025 at Civil Engineering Department, MVPS’s KBT College of Engineering, Nashik.
38. Presented a lecture on “Application of Image Analysis in Civil Engineering” for One Week Online Faculty Development Programme (FDP) on “Smart Civil Engineering: Integrating Technology for Sustainable Infrastructure” organized by the Department of Civil Engineering, Gandhi Institute of Excellent Technocrats, Bhubaneswar, India, on 15th – 20th September 2025.

DETAILS OF INDUSTRIAL TRAINING (COMPANY & DURATION)

1. Worked as Lecture in Rizvi College of Engineering, Mumbai for 3 months
2. Worked as Project Associate for 2 months in Earthquake Engineering Department, IIT-Roorkee
3. Summer Internship at GLOBAL GEOTECHNICS – Geotechnical Consultants, at Mumbai for period of 2 months (Duties: Deep excavations, Touch pile, PVD, Uplift anchors, etc.)
4. 1 year In-plant Industrial Training during Diploma, appointed as Junior Engineer
   - Space Engineers – 6 months (Mumbai-28 storey tower Construction)
   - Universal Consultants – 6 months (Mumbai-22 storey tower Construction)
     (Duties: Site supervising, Piling - shore and structure piles, RMC plant quality control, quantity estimations, concrete design, pile raft construction, etc.)
5. Seismic Site Characterization of Kanamadi Region for Wind Farm Development, North Karnataka, A Consultancy project, IIT Madras
6. Evaluation of tunnelling and excavation induced surface settlement for Heritage Impact Assessment for the Heritage structures in the vicinity of proposed Agra Metro Project.

GIAN PROGRAM

1. Seismic Analysis and Design of Masonry Structures, GIAN, IIT Madras, Chennai, 08-20 February, 2016 (Secured "B" grade i.e., 8/10)
2. Constitutive Modelling on Practical Geotechnical Analysis, GIAN, IIT Bombay, 06-16 June, 2016 (Secured "A" grade, highest grade i.e., 10/10)
3. Advances in Seismic Hazard Analysis and Soil-Structure Interaction, GIAN, IIT Madras, Chennai, 18-30 July, 2016 (Secured "S" grade, highest grade i.e., 10/10)

RESEARCH PROJECTS

1. Seed Project, SVNIT, Amount: 9.70 lakhs, Role: PI, Title of Project: Large Deformation Problems in Geotechnical Engineering: Experimental and Numerical Evaluation

CONSULTANCY PROJECTS (note: few reputed are mentioned)

1. Preparation of Engineering Report and vetting the report prepared by COMACODE for **Kalpasar Project** with site visits and attending meetings, M/s Coastal Marine Construction & Engg Ltd, Role: Co-PI.
2. Geotechnical Consultancy services for review of Geotechnical Reports, Foundation recommendation, drawings and field test reports, **Ayodhya Ram Mandir**, L&T Construction Buildings & Foundation, Role: Co-PI. Status: Completed
3. Providing consultancy for **Adani Solar Power Project** Khavda Gujarat, Adani Green Energy ltd, Role: Co-PI.
4. **Sheet pile excavations** at Hazira Port Surat, Grim Tech, Surat, Role: PI.
5. Vetting/Review/Approval of **Intake structure** Satna, Madhya Pradesh, L&T Construction, Role: Co-PI.
6. Analysis of **Foundation for Sphere of Unity**, Titanium Sphere, CCE R & D, DRDO, Role: PI, Status: Completed
7. Proof Checking of **foundation design and drawing BOP tower** 1170, Executive Engineer, Border fencing, CPWD Bhuj, Role: PI, Status: Completed.
8. MLRT – **Caudan Ramp Mauritius**, Consolidation settlement analysis and recommendation, L & T Construction, Role: Co-PI, Status: Completed
9. Consultancy service regarding opinion on **Difference between Specific gravity and dry density** of soil, Shree Hari Developers, Surat, Role: PI, Status: Completed

10. Consultancy service regarding opinion on **Difference between Specific gravity and dry density** of soil, Tirth Developers, Surat, Role: PI, Status: Completed
11. Providing consultancy for Proof checking of **Ashdyke design** for Jindal Steel near Raipur, Geo Dynamics, Vadodara, Role: Co-PI, Status: Completed.
12. Providing consultancy for Proof checking of **Geotechnical Feasibility Report** for Project "Rehabilation work of Ayad River, Udaipur", M/s Nalwaya – Jainco, JV, Udaipur, Role: Co-PI, Status: Completed.
13. Providing consultancy for **Soil investigation** report for the construction of new LPG plant at BPCL Rasayani, **Bharat Petroleum Corporation Ltd.** Village - Dapivali, Post - Rasayani, Role: Co-PI, Status: Completed.
14. Providing consultancy for **Proof checking of design of section of weir, foundation of weir, slope stability, stability check of weir under draw down conditions**, Shri Osho Krushnaganga Charitable Trust, Bhavnagar. Role: Co-PI.
15. Providing consultancy for **Health study & stability check of ash pond dykes of DVC Bokaro Thermal Power Station**, Damodar Valley Corporation, Bokaro, Jharkhand. Co-PI, Status: Ongoing.
16. Providing consultancy for **Detail Study of Foundation Design for IOCL Gujarat Refinery BS_IV Flare Project**, Indian Oil Corporation Limited, Refineries Division: Gujarat Refinery, PO Jawaharnagar, Dist. Vadodara, Gujarat – 391 320, India. Co-PI, Status: Completed.
17. Providing consultancy for **Soil investigation** report and **Foundation design of Tank** for BPCL Hazira, Surat, **Bharat Petroleum Corporation Ltd.,** Role: Co-PI, Status: Completed.
18. Providing consultancy for **Determination and recommendation of CBR values and soil properties of runway basic strip and RESA at Bhavnagar Airport**, Airport Authority of India – Bhavnagar, India. Co-PI, Completed.
19. Providing consultancy for **Soil investigation** report and **Foundation design of Tank** for BPCL Miraj, Sangli, **Bharat Petroleum Corporation Ltd.,** Role: Co-PI, Status: Completed.
20. Providing consultancy for design of **Double Sheet Pile Wall Cofferdam design for barrage work on River Tapi at Village Rundh-Bhatha (Surat)** for BPCL Miraj, Sangli, **Unique Construction Pvt. Ltd.** Surat, India. Status: Completed.
21. Providing consultancy for design of **Seepage Analysis for Section 1 (L42-R42) and Section 2 (L47-R47) reference to embankment and flood protection wall work on River Tapi at Village Rundh-Bhatha (Surat)** for BPCL Miraj, Sangli, **Unique Construction Pvt. Ltd.** Surat, India. Status: Completed.
22. Providing consultancy for **Expert Advice on Ground Improvement and solution for Settled Vertical Tanks at IndianOil Corporation Limited, Surat (Hazira) Terminal**. PI, Status: Completed.

ORGANISER OF TECHNICAL EVENT

1. Joint Organising Secretary of *Indian Geotechnical Conference 2019*, Surat Marriot Hotel, Surat, Organiser: Indian Geotechnical Society and SVNIT Surat, December 2019.
2. Program Coordinator of Short-Term Training Program on *Advances in Geotechnical Engineering* AGE 2020, SVNIT Surat, Total 50 Participants, 19th November 2020 to 23rd November 2020.
3. Program Coordinator of Short-Term Training Program on *Metro Construction and Management* MCM 2020, SVNIT Surat, Total 55 Participants, 14th December 2020 to 18th December 2020.
4. Faculty coordinator for a webinar lecture on "Geotechnical Instrumentation" by Dr. Trudeep Dave, Assistant Professor, Department of Civil Engineering, Institute of Infrastructure, Technology, Research And Management (IITRAM), Ahmedabad in association with IGS Surat chapter on 26th September 2021.
5. Faculty coordinator for a webinar lecture on "Seismic Ground Response Analysis" by Dr. Tejas Takkar, PDPU Gandhinagar in association with IGS Surat chapter on 28th October 2021.
6. Organised a Technical Training program for L&T Engineers on "Piling Engineering" in online mode from 22nd to 23rd July 2022.
7. Faculty coordinator for a webinar lecture on "Taking Care of Heritage, A Challenge for Geotechnical Engineers" by Dr. Alessandro Flora, Professor of Geotechnical Engineering, University of Napoli Federico II, Italy & Chairman, TC-301 Historic Sites of ISSMGE organized by the IGS Surat Chapter in association with IGS Student Chapter SVNIT on 28th September 2022 at 04:00 PM IST.

8. Organised a Technical Training program for L&T Engineers on "Foundation Engineering" in online mode from 24th to 25th February 2023.
9. Organised a National Seminar on Transportation Geotechnics 2023, SVNIT Surat, Gujarat, 25th March 2023
10. Organised a one-day Interaction Session on Environmental Geotechnics by Prof. D. N. Singh, IIT Bombay in association with IGS Surat Chapter on 24/04/2023.
11. Organised two days First National Conference on "Modern Construction Practices and Management (MCPM 2023)" during June 2–3, 2023, SVNIT Surat, India. Role: Organising Secretary.
12. Organised a one-day Interaction Session on Earthquake Geotechnical Engineering by Dr. Deepankar Choudhury, IIT Bombay in association with IGS Surat Chapter on 09/05/2023.
13. Organised a one-day National Seminar on RECENT ADVANCES IN GEOTECHNICAL ENGINEERING (RAGE-2023) on 15/10/2023 (Organising Committee Member).
14. Organised an International Symposium on Geotechnical Aspect of Heritage Structures at National Institute of Technology Trichy, Tamil Nadu in association of IGS Trichy Chapter and ISSMGE from 14/02/2024 to 16/02/2024
15. Organised a National Symposium on Recent Advances in Geotechnical Engineering at SV National Institute of Technology Surat, in association of IGS Surat Chapter and GRIMTECH Pvt Ltd from 07/06/2024 to 08/06/2024.
16. Organised a Technical Training program for L&T Engineers on "Recent Advances in Pilling Engineering" in online mode from 18th to 21st March 2024.
17. Organised a Technical Talk and Interaction session of Prof. R. G. Robinson, Professor, Geotech Division, IIT Madras on topic "Lumpy Fills" on 14/06/2024.
18. Lecture 1: Initiated a Lecture Series on Conservation of Heritage Sites in collaboration with Technical Committee 301 Historic Sites under ISSMGE and in support of Indian Geotechnical Society. First lecture was delivered by Dr. Guido Gottardi, Professor, University of Bologna, Italy on 10 July 2024.
19. Organised a one-day Interaction Session on Environmental Geotechnics by Prof. D. N. Singh, IIT Bombay in association with IGS Surat Chapter on 21/10/2024.
20. Lecture 2: Lecture Series on Conservation of Heritage Sites in collaboration with Technical Committee 301 Historic Sites under ISSMGE and in support of Indian Geotechnical Society. Lecture 2: "Potential Areas of Research and Development in Structural Conservation of Historical Structures" was delivered by Prof. Arun Menon, IIT Madras on 03/02/2025.
21. Organised a one day hands-on training session (one day workshop) on "PLAXIS 2D/3D Software: Deep Excavation and Pile-Raft Design and Analysis" at SVNIT Surat in association with Indian Geotechnical Society Surat Chapter & Bentley Systems India Pvt. Ltd. on 27th January 2025.
22. Organised a Three-day hands-on training session (three days' workshop) on "MIDAS GTS NX" at SVNIT Surat in association with Indian Geotechnical Society Surat Chapter & MIDAS Research & Development Centre India Pvt. Ltd. on 6th-8th February 2025.
23. Organised a Technical Training program at SVNIT Surat on topic "Technical Talk & Demo Session on OPTUM GX Software – Slope Stability Analysis" in online mode on 11th April 2025.
24. Organised a Technical Online talk/workshop at SVNIT Surat on topic "Introduction to Artificial Intelligence and Machine Learning in Civil Engineering" in online mode on 12th April 2025.
25. Technical Co-Chair and organising member for annual conference DFI India 2025 held at Avadh Utopia, Surat. DFI India 2025 annual conference was organised by DFI India in association with SVNIT Surat and IGS Surat chapter.
26. Organised a one-day Technical Talk on "Seismic Response Analysis Of Heritage Structures: An Application To Gol Gumbaz, Vijayapura, South India" by Prof. G. R. Dodagoudar, IIT Madras in association with IGS Surat Chapter on 26/09/2025.

SESSION CHAIR

1. IGC 2022 – at Kochi
2. 21st Southeast Asian Geotechnical Conference and 4th AGSSEA Conference (SEAGC-AGSSEA 2023) under ISSMGE, 25th to 27th October 2023, at the "Centara Grand & Bangkok Convention Centre, CentralWorld, Bangkok Thailand

3. IGC 2023 at IIT Roorkee
4. DFI India 2023 – at Vadodara
5. International Symposium on Geotechnical Aspect of Heritage Structures 2024 – at NIT Trichy
6. DFI India 2024 – at Goa
7. DFI India 2025 – at Surat

COMPUTER SKILLS

- AutoCAD
- PLAXIS-2D & 3D
- GeoSlope, Geo5
- MS Office, Origin 9
- MASW analysis
- OPTUM G2

COUNTRIES VISITED

- Paris, France
- Porto, Portugal
- Madrid, Spain
- Bangkok, Thailand
- Abu Dhabi and Dubai, United Arab Emirates

MEMBERSHIP IN PROFESSIONAL SOCIETY

- Member, Indian Geotechnical Society Chennai Chapter (SM 1078)
- Life Member, Indian Geotechnical Society (LM 4934)
- Associate Member, Institute of Engineers (AM 1979488)
- Member, International Society of Soil Mechanics and Geotechnical Engineering
- Life Member, Indian Society of Earthquake Technology (LM 1790)
- Individual Member, Deep Foundation Institute of India (28316)
- Life Member, Indian Roads Congress (eLM-102937)
- Life Member, Indian Society for Rock Mechanics and Tunnelling Technology (ISRMTT) (LM-2342)
- Life Member, Indian Society of Engineering Geology (LM-1828)

ADVISOR / CO-CURRIULAR ACTIVITY

- Departmental Advisory Member – St. John College of Engineering, Palghar, Maharashtra affiliated to University of Mumbai
- Departmental Advisory Member – Vartak College of Engineering, Vasai, Mumbai affiliated to University of Mumbai
- Department of Civil Engineering Advisory Board for 2021 – 22, Universal College of Engineering, Kaman, Thane.

COURSES DEVELOPDED

- CE 455 Introduction to Finite Element Method
- CE 488 Introduction to Earthquake Geotechnical Engineering
- CEGT121 Constitutive Modelling in Geomechanics
- CEGT204 Numerical Modelling in Geomechanics
- CEGT102 Slope stability and Retaining structures
- CEGT220 Soil Exploration and Field Tests

COURSES TAUGHT

- AM 702 Finite Element Method (Theory)
- AM 108 Engineering Mechanics (Theory & Lab)
- AM 306 Geotechnical Engineering (Theory & Lab)
- AM 639 Computer Applications in Geotechnical Engineering (Theory)
- CE 717 Construction Material Testing (Lab)
- CE 113 Building Technology (Theory & Lab)
- CE 207 Geotechnical Engineering (Lab)
- CE 455 Introduction to Finite Element Method (Theory)
- CEGT102 Slope stability and Retaining structures (Theory)
- CEGT204 Numerical Modelling in Geomechanics (Practical)
- EG110 Energy and Environment (Theory)
- CE 301 Estimation and Cost Analysis (Tutorial and Practical)
- CECT113 Low Cost Construction (Theory)

REVIEWER / EDITOR

- Editorial Board Member – Discover Soil, Springer
- Editorial Board Member – Scientific Reports, Springer Nature
- Academic Editor – Journal of Engineering Research and Reports
- Reviewer – Journal of Earth System Science, Springer
- Reviewer – Geotechnical and Geological Engineering, Springer
- Reviewer – International Journal of Geosynthetics and Ground Engineering, Springer
- Reviewer – Transportation Infrastructure Geotechnology, Springer
- Reviewer – Arabian Journal of Geosciences, Springer
- Reviewer – Indian Geotechnical Journal, Springer
- Reviewer – International Journal of Geotechnical Engineering, Taylor and Francis
- Reviewer – Ships and Offshore Structures, Taylor and Francis
- Reviewer – Geomechanics and GeoEngineering, Taylor and Francis
- Reviewer – Georisk - Assessment and Management of Risk for Engineered Systems and Geohazards, Taylor and Francis
- Reviewer – International Journal of Geomechanics, ASCE
- Reviewer – Journal of Computing in Civil Engineering, ASCE
- Reviewer – Journal of Pipeline Systems Engineering and Practice, ASCE
- Reviewer – Geomechanics and Engineering – an International Journal, TechnoPress
- Reviewer – Applied Sciences, MDPI
- Reviewer – Engineered Science
- Reviewer – Ocean Engineering, Elsevier
- Reviewer – Automation in Construction, Elsevier
- Reviewer – Acta Astronautica, Elsevier
- Reviewer – Measurements, Elsevier
- Reviewer – Reliability Engineering & System Safety, Elsevier
- Reviewer – Probabilistic Engineering Mechanics, Elsevier
- Reviewer – Geotechnology Engineering - Proceedings of the Institution of Civil Engineers, ICE London
- Reviewer – Geosynthetics International, ICE London
- Reviewer – Environmental Geotechnics, ICE London
- Reviewer – Geotechnique, ICE London
- Reviewer – Engineering Reports, Wiley
- Reviewer – Scientific Reports – Nature
- Reviewer – Journal of Applied Science and Engineering

- Reviewer (Conference papers) – Indian Geotechnical Conference 2019, 2021, 2022; International Conference on Sustainable Energy and Clean Technology 2022 PDPU, TRACE 2020, 8IYGEC 2021, DFI India 2023, EGRWSE 2023, ISGHS 2024, DFI India 2024, IGC 2024, GEOTECH ASIA 2025, DFI India 2025, 2nd International Conference on Innovations in Smart and Sustainable Infrastructure (ISSI 2.0), IGC 2025, etc.

STUDENTS GUIDANCE: PHD Thesis

Sr. No.	Name	Roll No.	Research Area	Status
1	Kritesh Chouhan	D20CE020	Experimental and Numerical Simulations of Large Deformation Problems in Geotechnical Engineering	Completed, Defended on 08/01/2025
2	Harsh Rai	DS20CE018	Numerical and Experimental Investigation on Evaluation of Arching Mechanism in Soil Using Trapdoor Test	Completed, Defended on 25/09/2025
3	Ms. Kanchan Patil	D21CE021	Pavement Geotechnics	Ongoing
4	Jaymin Hadiyol	D24CE004	Tentative: Offshore geotechnics	Ongoing
5	Lokesh Bhangale	D25CE004	Tentative: Optimisation in Geosynthetics	Ongoing
6	Naveen Angadi	D25CE010	Tentative: Rotation capacity of Geostructures	Ongoing
7	Kiran Bande	D25CE016	Tentative: Marine anchors	Ongoing

Kritesh Chouhan has received 1500 USD grant (ISSMGE Student Travel Grant) to attend International Conference (NUMGE 2023) at London

STUDENTS GUIDANCE: MTech Dissertation

Sr. No.	Name & Roll No.	Thesis title	Status	Current working at
1	Manideep Regunta (P19SM006)	Bearing capacity of footings on limited depth of soil	July 2021	Strata
2	AVR Karthik (P19SM007)	Numerical investigations on stability of slopes: planar and concave slopes	July 2021	Lloyds Engineering Works Limited
3	Parimi Naga Anvesh (P20SM024)	Numerical evaluation of bearing capacity of strip footing on rockmass slope	July 2022	Keller
4	Chaitra Talikoti (P20SM016)	Numerical investigations on single and double strip footings placed over an embankment	July 2022	Pvt College
5	Mandala Vishnuvardhan (P20SM015)	Numerical investigations on response of multistorey building frames subjected to adjacent unsupported excavations	July 2022	LnT
6	Yogesh Ola (P20SM021)	Finite element evaluation of effective cbr for subgrade with varying thickness	July 2022	PhD at IIT Guwahati
7	Rahul Kumar (P21SM014)	Observations on deterministic seismic hazard analysis for the study region, Gujarat	June 2023	TechFab India
8	Vaibhav Samadhiya (P21SM001)	Numerical investigations on evaluating the effects of boundary conditions on the stability of soil slopes	June 2023	LnT
9	Hitesh Rupani (P21SM011)	Efficacy evaluation of image processing in	June 2023	LnT Hydrocarbon

		experimental geotechnics		
10	Chetan Bambhaniya (P21SM010) – Co-Guided	Investigating the failure pattern during the tensile testing of geotextile through image analysis	June 2023	LnT
11	Niharika Thorat (P21SM002) – Co-Guided	Experimental and numerical investigation on heave evaluation for expansive soil treated with lime	June 2023	PCP Labs & Consultants Pvt Ltd.
12	Rohan (P21CT022)	Heritage conservation policies based on seismic hazard of India	left	Gujarat Gov.
13	Pavan (P21CT024)	Hierarchy order evaluation of different rapid construction technologies using analytical hierarchy process method	June 2023	Kalpataru pvt. ltd
14	Akabari Brijesh Hansarajbhai (8021070499) from MSU Baroda	Drained bearing capacity of skirted circular and ring footings with varying depth of skirts	July 2023	TechFab Vadodara
15	Jenil Gandhi from CGPIT Maliba Campus	Stability evaluation of planar and circular sheet pile wall in sand and clay using FELA	May 2023	Bhoomi Research Lab
16	Jayminsinh Hadiyol (P22GT001)	Penetration and extraction response of spudcan in undrained clay	July 2024	Pursuing PhD
17	Parin Dalal (P22GT009)	FELA evaluation of uplift, lateral and inclined capacity of buried pipeline in layered clays	July 2024	Essar
18	Nirav Kachhadiya (8022053581) from MSU Baroda	FELA evaluation of bearing capacity factors for strip footing on rockmass treated with grout	July 2024	Kellar
19	Shyam Rebecca (P23GT003)	Bearing capacity factors for strip footing resting on grouted rockmass	June 2025	EIL
20	Daksha Randive (P23GT006)	Observations on volumetric shrinkage and interpretation of shrinkage limit of expansive soils	June 2025	SR Geotechnique, Mumbai
20	Tushar from MSU (PRN NO: 8023056092)	Numerical investigation on drained and undrained load carrying capacity of soil plug in open-ended pipe pile	July 2025	Unique Eng. Surat
21	Dhrasti from MSU (PRN NO: 8023056128)	Numerical evaluation of undrained bearing capacity of unconnected strip and circular skirted footings	July 2025	--
22	Oindrilla Ghosh (CTM, P23CT010)	Seismic risk evaluation for heritage sites in India	July 2025	--
23	Bhavisha Vajapara from CGPIT Maliba Campus (Enrollment N0.: 202304104010004)	FE evaluation of uplift capacity of fin-pipeline in undrained clay	July 2025	--
24	Dhruvil Rangoonwala (P24GT010)	Expansive Soil – soil shrinkage curve	ongoing	
25	Swaraj Jagtap (P24GT003)	Spun Piles – field executions	ongoing	
26	Kanishka	Arch beam for low rise structures	ongoing	
27	Abhishek	Utilisation of Bamboo for construction	ongoing	

STUDENTS GUIDANCE: BTech Project

Sr. No.	Name & Roll No.	Thesis title	Status

1	Tirthraj Anand (U18CE026), Ritesh Trivedi (U18CE050), Pranjal Nirbhay (U18CE051)	Conservation of Heritage Sites in Gujarat: Geotechnical and Structural Aspects	May 2022
Kuldeep Sankhat (U18CE017) did the project work at IIT Bombay			
2	Priyam Naik (U19CE013), Tirtha Sawant (U19CE032)	Time History Analysis of Heritage Structure in Surat	May 2023
3	Satyam Rajput (U19CE050), Pranjal Bhushan (U19CE071)	Spudcan Offshore Foundation: Experimental and Numerical Investigations	May 2023
4	Shyara Satyam Bhikhalal (U20CE023), Chirag Kishorbhai Dolar (U20CE055), Kumari Ritu (U20CE021)	Stability Evaluation of twin tunnel in anisotropic clay using FELA	December 2023
5	Maliwad Nikunj U21CE035, Vanshil Golakiya U21CE073, Bhoomi Gautam U21CE074	Development of 3D models of Heritage Sites	December 2024

PHD OPENING

Enthusiastic and interested students who wants to pursue PhD under the Research area given below can contact me at jtc@amd.svnit.ac.in . The areas of Research are:

- Offshore Geotechnique
- Use of PIV analysis / Image analysis in Geotechnical Engineering
- Stability of Structures on Rockmass
- Soft soil engineering
- Rigid inclusion in soft soils
- Computational Geomechanics (Numerical Modelling in Geotechnical Engineering)
- Constitutive Modelling in Geotechnics
- Physical Modelling in Geotechnical Engineering
- Deep Foundations
- Deep Excavations
- Earthquake Geotechnical Engineering (Dynamic Soil Properties)
- Seismic Hazard Analysis
- Conservation of Heritage Structures