



Dr. Chandresh H. Solanki

Professor

Civil Engineering Department

SVNIT, Surat.

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EDUCATIONAL QUALIFICATIONS

B.E. (Civil)	1990	L.D. College of Engineering, Ahmedabad Gujarat University, Ahmedabad
M.E. (Civil)	1994	R.E.C., SGU, Surat, Gujarat, India
Ph.D. (Civil)	2008	S. V. National Institute of Technology, Surat, Gujarat, India

MAJOR AREAS OF RESEARCH

- Sub Soil Characteristics
- Predictions in Geotechnical Engineering
- Ground Improvement
- Geo-environmental Engineering
- Pile Foundations

COURSES TAUGHT / TEACHING

Under Graduate:

AM108 Engineering Mechanics

AM307 Ground Engineering

Geotechnical Engineering

Post Graduate:

AM633 Foundation Engineering

AM732 Soil Improvement Techniques

AM637 Measurement Techniques in Geotechnical Engineering

Soil Dynamics and Machine Foundations

PRIZES, AWARDS, DISTINCTIONS

1. Invited as an **expert in GPSC recruitment** of Assistant Engineer R&B in the year 2019.
2. Elected as a **National Member of The Executive Committee** in The Indian geotechnical Society (IGS) during 2019-2020.
3. Elected as a **National Member of The Executive Committee** in The Indian geotechnical Society (IGS) during 2017-2018.
4. Elected as **International Technical Committee Member** (TC-306-Geoengineering Education) in International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE) in 2018-2019.
5. **Chaired a session** and attended a conference named IACMAG at IIT Gandhinagar in the year 2019.
6. Invited as an **external examiner** in GTU in LD College, Ahmedabad in 2018.
7. **Chaired a session** and attended a conference named IGC at IISc Bangalore in the year 2018.
8. Received **Prof. Dinesh Mohan Biennial Award** for the best paper for "Behaviour of Cushioned Composite Piled Raft Foundation under Lateral Forces" on "Pile Foundation" from Indian Geotechnical Society in 2017.
9. Elected as an **Advisory Committee Meeting Member** in Faculty of Civil Engineering, SCET Surat in 2017.
10. Elected as a **National Member of The Executive Committee** in The Indian geotechnical Society (IGS) during 2015-2016.
11. Invited as an **expert in GPSC recruitment** of Assistant Professor in the year 2016.
12. Received **Best Paper Award** on "Influence of Fine Fraction on Shear Parameters and Consolidation Behavior of Tropical Residual Soil", Innovation in Piling and other Foundation Construction Techniques" from International Civil Engineering Symposium (ICES'16), 2nd International Conference on Sustainable Energy and Built Environment, ASCE Indian Section, VIT University Vellore, ICES-GT012 in 2016.
13. Received the **"Distinguished Faculty Award"** from The Venus International Faculty Awards, Chennai in 2016.
14. Received **Best Paper Award** on "Critical Analysis of Compression Behaviour of Soft Soils", Innovation in Piling and other Foundation Construction Techniques" from National Conference on Research Trends in Civil Engineering, Dept. of Civil Engineering, HJD Institute of

Technical Education and Research, Kera-Kutch, Bhuj, Gujarat, India in 2015.

15. Received **Shri. M. S. Jain Biannual Award** for Best Paper on "Innovations in Piling and other Foundation Construction Techniques" from Indian Geotechnical Society in 2013.
16. Received **Best Paper Award** on "Multi Helix Micro pile for Retrofitting of Bridge Foundations", Innovation in Piling and other Foundation Construction Techniques" from Indian Geotechnical Society in 2013.

MEMBER OF TECHNICAL SOCIETIES:

1. Life Member, Indian Geotechnical Society
2. Life member, Indian Society for Technical Education (ISTE), New Delhi
3. Life Member, Institute of Engineers, India

RESEARCH PROJECTS

Name of the Project & amount	Sponsoring Authority
Performance and design evaluation of test tracks of flexible pavements with waste materials in subbase and base layers. 161.15 Lakhs. (June 2016- Till Now)	DST New Delhi

RESEARCH PUBLICATIONS:

Publications in National & International Journals:

1. Mistry M., Shukla S., Solanki C., Shukla S.K. (2019). Study of Fibre-clay Interface Behaviour and Reinforcing Mechanism. Geotechnical and Geological Engineering. doi:10.1007/s10706-019-01138-y Springer Publication (Scopus indexed)
2. Vemula A. Reddy, Chandresh H. Solanki, Shailendra Kumar, Krishna R. Reddy, Yan-Jun Du "New ternary blend limestone calcined clay cement for solidification/ stabilization of zinc contaminated soil" Chemosphere (Elsevier), 2019.
3. Rao P, Desai A and Solanki C., Assesment of plastic deformation of soil in the Gujarat region caused by high speed train. International Journal of Recent Technology and Engineering (2019).
4. Jitesh T. Chavda, Chandresh H. Solanki, Atul K. Desai "Lateral Response of Contiguous Pile Wall Subjected to Staged Excavation: Physical and Numerical Investigations", Indian Geotech J, 2019.

5. Shivakumar S. Athani, Chandresh H. Solanki, Goudappa R. Dodagoudar, and Sanjay K. Shukla Finite-element analysis of strains in seepage barriers of the earth dam, *Dams and Reservoirs* 2019 29:3, 87-96
6. Anand M. Hulagabali, C. H. Solanki, G. R. Dodagoudar and M. P. Shettar Effect of Reinforcement, Backfill and Surcharge on The Performance of Reinforced Earth Retaining Wall, *ARPN Journal of Engineering and Applied Sciences* ©2006-2018 Asian Research Publishing Network (ARPN). All rights reserved. www.arpnjournals.com 3224
7. J. B. Patel, C. H. Solanki, Y. K. Tandel, J. Joseph, Finite element modeling of pervious concrete-stone column composite column group for ground improvement. *International Journal of Civil Engineering and Technology*. 9, 889–895 (2018).
8. A. M. Hulagabali, C. H. Solanki, G. R. Dodagoudar, M. P. Shettar, Influence of supporting systems on behavior of mse wall. *International Journal of Civil Engineering and Technology*. 9, 1000–1007 (2018).
9. J. B. Patel, C. H. Solanki, Y. K. Tandel, Pervious concrete column: Numerical evaluation. *International Journal of Civil Engineering and Technology*. 9, 601–607 (2018).
10. H. K. Sarvaiya, C. H. Solanki, A study on effect of length of geosynthetic encasement material on floating stone column. *International Journal of Civil Engineering and Technology*. 8, 977–985 (2017).
11. H. K. Sarvaiya, C. H. Solanki, A study on effects of Geosynthetic encasement on floating stone column. *International Journal of Civil Engineering and Technology*. 8, 891–899 (2017).
12. H. K. Sarvaiya, C. H. Solanki, An experimental study on effects of diameter on load carrying capacity of geosynthetically encased floating stone column. *International Journal of Civil Engineering and Technology*. 8, 88–96 (2017).
13. S. Angadi, M. K. Desai, C. H. Solanki, G. R. Dodagoudar, Characterization of ground profile using multichannel analysis of surface wave at somnath temple. *International Journal of Civil Engineering and Technology*. 8, 969–976 (2017).

14. C. Bogireddy, G. Sutar, C. H. Solanki, S. A. Vasawala, Regional normalized empirical correlations for the compression index (Cc) of soil—a critical overview. *International Journal of Civil Engineering and Technology*. 8, 77–88 (2017).
15. Athani, S. S., Solanki, C. H., Mohapatra, B. G., & Dodagoudar, G. R. (2017). Strains induced around cutoff walls of earth dam under full reservoir and drawdown conditions. *Lowland Technology International*, 18(4), 297–304.
16. Chandra Bogireddy, Chandresh. H. Solanki, Sandip A. Vasawala, “Regional Normalized Empirical Correlations for the Compression Index (Cc) of Soil – A Critical Overview”, *International Journal of Civil Engineering & Technology (IJCIET)* (2017).
17. Shivamanth A, Maynak K Desai., C H Solanki, G. R. Dodagoudar, “Characterization of Ground Profile Using Multichannel Anlysis of Surface wave at Somnath Temple”, *International Journal of Civil Engineering and Technology*. (2017).
18. Yogendra Tandel, Mohsin Jamal, Chandresh Solanki, Atul Desai & Jignesh Patel, “Performance of Small Group of Geosynthetic Reinforced Granular Piles”, *Marine Georesources & Geotechnology*. (2016).
19. Jaymin D. Patil, Sandeep A. Vasawala, Chandresh H. Solanki, “An Experimental Study on Behaviour of Piled Raft Foundation”, *Indian Geotechnical Journal*. (2016).
20. Shivamanth A, Sharma P S., Maynak K Desai., C H Solanki, “A review on Development of Settlement of Seismic Hazard Analysis of India”, *International Journal of Modern Trends in Engineering and Research*. (2016).
21. Chandra Bogireddy, C. H. Solanki and S. A. Vasawala, “Influence of Fine Fraction on Shear Parameters and Consolidation Behavior of Tropical Residual Soil”, *Indian Journal of Science and Technology*, 2016.
22. Jaymin Patil¹, Vasawala S A and Solanki C H., “An experimental study of eccentrically loaded piled raft”, *International Journal of Geotechnical Engineering*. (2016).

23. Yogendra Tandel, Mohsin. J., Chandresh Solanki and Atul Desai, "Numerical Analysis of Laboratory Modelled Reinforced Stone Column", *Current Science*. (2015).
24. Shukla. S. J., Desai A.K. and Solanki C.H, "A Behavioural Study of Dynamic Soil Structure Interaction For Piled Raft Foundation with Variable Sub Soils by Time History FEM Model", *Int. J. of GEOMATE Geotech., Const. Mat. and Env.* (2015).
25. S. J. Shukla, A. K. Desai, C. H. Solanki, A behavioural study of dynamic soil structure interaction for piled raft foundation with variable sub soils by time history fem model. *International Journal of GEOMATE*. 8, 1288–1292 (2015).
26. V. J. Sharma, S. A. Vasanvala, C. H. Solanki, Behaviour of Cushioned Composite Piled Raft Foundation under Lateral Forces. *Indian Geotechnical Journal*. 45, 89–97 (2015).
27. V. J. Sharma, S. A. Vasanvala, C. H. Solanki, Study of cushioned composite piled raft foundation behaviour under seismic forces. *Australian Journal of Civil Engineering*. 13, 32–39 (2015).
28. Shailendra Kumar, C. H. Solanki, and B. K. Pandey, "Behaviour of Prestressed Geotextile-Reinforced Fine Sand Bed Supporting an Embedded Square Footing", *Int. J. of GEOMATE*. (2015).
29. A. M. Hulagabali, C. H. Solanki, 3 D contaminant transport modeling through saturated porous media using finite element geotechnical package SV office- chemflux. *International Journal of Applied Engineering Research*. 9, 127–131 (2014).
30. Y. K. Tandel, C. H. Solanki, A. K. Desai, Field behaviour geotextile reinforced sand column. *Geomechanics and Engineering*. 6, 195–211 (2014).
31. Uma Chaduvula, Atul K. Desai, C. H. Solanki, "Application of Triangular Polypropylene Fibers on Soil Subject to Freeze-thaw Cycles", *Indian Geotechnical Journal*. (2014).

32. Chavda Jitesh, Desai A.K., Solanki C. H, "Parametric Study on Pile Wall Used As Retention System for Deep Excavations" ,International Journal of Soil Mechanics & Foundations– IJSMF. (2014).
33. Vashi, Jigisha M., Desai, A. K. and Solanki, C. H, "Behavior of geotextile reinforced flyash + clay-mix by laboratory evaluation", Geomechanics and Engineering. (2013).
34. Maheshwari K, Desai A, Solanki C, "Bearing Capacity of Fiber Reinforced Soil", International Journal of Civil Engineering and Technology (IJCIET). (2013).
35. Y.K. Tandel, C.H. Solanki, A.K. Desai, "Laboratory Experimental Analysis on Encapsulated Stone Column", Archives of Civil Engineering, (2013).
36. Gohil, D.P., A. K. Desai, C. H. Solanki, "Behavior of geogrid reinforced soil under earthquake loading", Construction Engineering. (2013).
37. Gohil. D.P., C.H. Solanki, A.K. Desai, "Behavior of Geogrid Reinforced Soil under Earthquake Loading", Journal of Construction Engineering. (2013).
38. Manish H. Sharma and Dr. C.H. Solanki, "Liquefaction Hazard Mapping", International Journal of Civil Engineering and Technology (IJCIET). (2013).
39. Tandel, Y., Solanki, C., Desai, A., "Prediction of Settlement Improvement Factor for the Embankment Constructed on the Reinforced Granular Column", Journal of Central South University (JCSU). (2012).
40. Divyangini, Gohil., Solanki, Chandresh H., Desai, Atul K. "Foundation Isolation for Seismic Protection using Synthetic Liner", Journal of Engineering Research and Studies. (2012).
41. Yogendra K. Tandel, Chandresh H. Solanki, and Atul K. Desai, "3D FE Analysis of an Embankment Construction on GRSC and Proposal of a Design Method", Hindawi Publishing Corporation ISRN Civil Engineering. (2012).
42. Rajagopal C., Solanki C. H. , Tandel Y. K, "Comparison of Static and Dynamic Load Test of Pile", EJGE - Electronic Journal of Geotechnical Engineering. (2012).

43. Tandel, Y., Solanki, C., Desai, A, "Reinforced Granular Column for Deep Soil Stabilization- A review", International Journal of Civil and Structural Engineering. (2012).
44. Jigisha M. Vashi , Atul K. Desai, Chandresh H. Solanki, "Assessment of reinforced embankment on soft soil with PET and PP Geotextile", International Journal of Civil And Structural Engineering. (2012).
45. Tandel, Y.K., and Solanki, C.H. (2012). Deformation behaviour of ground improved by reinforced stone columns. In Australian Geomechanics Journal, pp. 51–59.
46. S. J. Shukla, A. K. Desai, C. H. Solanki, Behavioural study of piled raft foundation in layered soil deposits. International Journal of Applied Engineering Research. 6 (2011), pp. 1785–1792.
47. S. Pakala, C. H. Solanki, Effect of pore water pressure on large foundation-loss of contact. Electronic Journal of Geotechnical Engineering. 16 L, 1229–1243 (2011).
48. M. Vashi, Jigisha, A. K. Desai, C. H. Solanki, Review on factors considered and rarely considered in design of earth retaining structures. World Applied Sciences Journal. 14 (2011), pp. 114–120.
49. Vashi, J., Desai, A. and Solanki. C, "Mixtrue of soil & flyash as RE wall backfill", Australian g\Geomechanics Journals. (2011).
50. Vashi, Jigisha M., Desai, A. K., Desai, M. D. and Solanki, C. H, "Significance of Creep Compatibility Study for Geosynthetics in Compacted Fill", International Journal of Earth Sciences and Engineering. (2011).
51. Maheshwari, K. and Desai, A. and Solanki. C, "Performance of Fiber Reinforced Clayey Soil", International Journal of Geotechnical Engineering (IJGE). (2011).
52. Gohil D, Solanki C, Desai A, "Evaluation of the Interactive Forces and the Moment for the Soil- Geosynthetic-Foundation-Building System under Earthquake Loading", EJGE. (2011)
53. Dalal, N., Solanki, C., and Desai, A., "Low pressure cement grouting to improve bearing capacity of old waste dump site for economical

foundations of low-cost housing”, New building materials & construction world, NBM&CW (2011).

54. Dalal, N., Solanki C., and Desai, A, “Plate load tests on municipal solid waste dump site to assess ground improvement alternatives”, Journal of environmental science and engineering, USA. (2011).
55. Vashi, Jigisha M., Desai, A. K. and Solanki, C. H., “Geosynthetics in Pavements- State of Usage and Economic Feasibility”, Journal of Civil Engineering and Construction Review (CE&CR). (2011).
56. Siddharth G. Shahb, Desai. J.A., Solanki. C.H., “Effects of Pylon Shape on Seismic Response of Cable Stayed Bridge with Soil Structure Interaction”, International journal of Civil & Structural Engineering. (2010).
57. Maheshwari, K., Solanki, C. and Desai, A., “A study on design and cost of flexible pavement in fiber reinforced highly compressible clay”, International journal of applied engineering research. (2010).
58. Maheshwari, Kalpana and Solanki, C. H, “Behavior of Fiber Reinforced Soil”, Australian Geomechanics. (2009).
59. Solanki, C. H., Desai M. D. and Desai, J. A., “Statistical Analysis of Index and Consolidation Properties of Alluvial Deposits and New Correlations”, International Journal of Applied Engineering Research. (2008).
60. Solanki, C. H., Desai M. D. and Desai, J. A., “Empirical Correlations for Compressibility Parameters of Alluvial Deposits”, Indian Geotechnical Journal, 2008.

International Conferences / Seminars

1. Shukla D., Solanki C. “Deaggregation of seismic hazard for two different sites in indore region. Symposium on International Association for Computer Methods and Advances in Geomechanics (IACMAG) on March 5-7, 2019 at IIT Gandhinagar, India.
2. Dave M., Solanki C., “Protection of buried pipelines using geosynthetic under different loading conditions – A review. Symposium on International Association for Computer Methods and Advances in Geomechanics (IACMAG) on March 5-7, 2019 at IIT Gandhinagar, India.

3. Joshi A., Solanki C.H. (2019) Bioenzymatic-Lime Stabilization of Different Soils. In: Sundaram R., Shahu J., Havanagi V. (eds) Geotechnics for Transportation Infrastructure. Lecture Notes in Civil Engineering, vol 29. Springer, Singapore
4. Mistry M., Shukla T., Venkateswalu P., Shukla S., Solanki C., Shukla S.K. (2019) A New Mixing Technique for Randomly Distributed Fibre-Reinforced Expansive Soil. In: Agnihotri A., Reddy K., Bansal A. (eds) Environmental Geotechnology. Lecture Notes in Civil Engineering, vol 31. Springer, Singapore. Springer Publication.
5. Anand V. Reddy, Solanki C. H, Shailendra Kumar, Krishna R. Reddy "Understanding Speciation and Leaching of Heavy Metals from a Polluted Site, Surat, Gujarat", In: Agnihotri A., Reddy K., Bansal A. (eds) Environmental Geotechnology. Lecture Notes in Civil Engineering, vol 31. Springer, Singapore. Springer Publication.
6. P. Venkateswarlu, E. P. Krishnaveni, D. Bishnoi, C. H. Solanki, S. K. Shukla "Enhancement of shearing strength of poorly graded sand by using modified waste rubber tyre fibers", EGRWSE, NIT Jalandhar, 29-31 March, 2019
7. Mistry M., Venkateswarlu P., Shukla S., Solanki C., Shukla S.K. (2019) Effect of Placement of Waste Tyre Fibres on Unconfined Compressive Strength of Clayey Soil. In: Shukla S., Barai S., Mehta A. (eds) Advances in Sustainable Construction Materials and Geotechnical Engineering. Lecture Notes in Civil Engineering, vol 35. Springer, Singapore.
8. Venkateswarlu, P., Shukla, T., Mistry, M., Solanki, C.H. and Shukla, S.K. "Compressive strength behavior of stratified layers of unreinforced and randomly distributed tire fiber-reinforced clayey soil" 2nd International Conference on Advances in Concrete, Structural and Geotechnical Engineering, BITS, Rajasthan
9. Konnur S.S., Hulagabali A.M., Solanki C.H., Dodagoudar G.R. (2019) Numerical Analysis of MSE Wall Using Finite Element and Limit Equilibrium Methods. In: Adimoolam B., Banerjee S. (eds) Soil Dynamics and Earthquake Geotechnical Engineering. Lecture Notes in Civil Engineering, vol 15. Springer, Singapore
10. Amashi A.R., Hulagabali A.M., Solanki C.H., Dodagoudar G.R. (2019) Landslide Risk Assessment and Mitigation—A Case Study. In: Adimoolam B., Banerjee S. (eds) Soil Dynamics and Earthquake Geotechnical Engineering. Lecture Notes in Civil Engineering, vol 15. Springer, Singapore.

11. Chandra Bogireddy, Himmat K S, Krishna. M.V.N, Solanki C. H, Vasawala. S. A, (2016), "Prediction of Consolidation Behaviour of Soil by Finite Element Method", International Conference on Soil and Environment (22-23July 2016), IGS Bangalore Chapter, Dept. CE, IISc Bangalore, paper No: 015-sb.
12. Krishna. M.V.N, Vangla. P, Madhavi Latha. G, Chandra. B, Solanki. C.H, (2016), "A Review on Recent Development of Image Analysis Systems for Particle Size and Shape Characterization", International Conference on Soil and Environment (22-23July 2016), IGS Bangalore Chapter, Dept. CE, IISc Bangalore, paper No: 111-sb.
13. Chandra Bogireddy, Solanki. C. H, Vasawala. S. A, (2016), "Influence of Fine Fraction on Shear Parameters and Consolidation Behavior of Tropical Residual Soil", International Civil Engineering Symposium (ICES'16), 2nd International Conference on Sustainable Energy and Built Environment, ASCE Indian Section, VIT University Vellore, ICES-GT012, 10th -12th March, 2016 (Best Paper Award)
14. Jignesh Patel, Yogendra Tandal, Jerin Joseph and Solanki C H., (2016) "Numerical Study of Behaviour of group Pile Made of pervious Concrete and Stone Aggregates" 8th International Conference on Electrical, Electronics and Civil Engineering(ICEECE-16), Dubai (UAE), PP: 74-77, January 2016.
15. Yogendra Tandel, Jignesh Patel, Solanki C H and Atul Desai, (2016) "Numerical Study of Behaviours of Geosynthetic Reinforce Stone Colum" 8th International Conference on Electrical, Electronics and Civil Engineering (ICEECE-16), Dubai (UAE), PP: PP: 78-80, January 2016.
16. Shailendra Kumar, Solanki C H and Mehul M Chavda, (2016) "Study on the Square Footing Resting on Geotextile Reinforced Sand" 8th International Conference on Electrical, Electronics and Civil Engineering (ICEECE-16), Dubai (UAE), PP: 86-90, January 2016.
17. Shruti. Shukla, Atul Desai and Solanki C H., (2016) "A Dynamic Behavioural Study of Structures and Foundation of 25 story Structure with variable sub soil by time history FEM model " 8th International Conference on Electrical, Electronics and Civil Engineering (ICEECE-16), Dubai (UAE), PP: 57-61, January 2016.
18. Athani. S. S., Solanki. C. H., Dodagoudar. G. R., (2015) "Finite Element Method in Drawdown Analysis of Earth Dam with Seepage Barrier", International Conference on Advances in Civil and Environmental Engineering 2015 (ACEE 2015)", 28-30 July 2015, Penang, Malaysia.

19. Solanki. C.H., (2014) "Consolidation Parameters From Atterberg Limits- New Correlations", Fourth International Conference on Geotechnique, Construction Material and Environment, GEOMATE 2014 organized by the University of Southern Queensland, Australia & GEOMATE International Society, Brisbane, Australia, 19_21 November 2014.
20. Sharma, V. J., Vasanvala, S. A. and Solanki, C. H., (2014) "Behaviour of Load Bearing Components of Cushioned Composite Piled Raft Foundation", Elsevier, Proceedings of 3rd International Conference on Recent Trends in Engineering & Technology (ICRTET'2014), page: 821-828, Chandwad, 2014.
21. Jigisha M. Vashi, Atul K. Desai, Chandresh H. Solanki, (2013) "Evaluation of PET and PP Geotextile Reinforced Embankment on Soft Soil", Chemical, Civil and Mechanical Engineering Tracks of 3rd Nirma University International Conference, Elsevier (2013) 19 – 24.
22. Kalpana Maheshwari, Dr. Atul Desai & Dr. C. H. Solanki, (2012) "Analytical Modeling of Flexible Pavement Resting on Fiber Reinforced Clayey Soil", Indian Geotechnical Conference, December 13-15, 2012, New Delhi.
23. Jigisha M. Vashi, Atul K. Desai and Chandresh H. Solanki, (2012) "Feasibility Studies Of Geotextile Reinforced Steep Embankment On Poor foundations As Alternative To Reinforced Earth Wall In Indian Environment" Proceedings of the International Conference on Ground Improvement and Ground,Wollongong, Australia, ISBN: 978-981-07-3560-9, November-2012.
24. Vashi, J., Desai, A., Solanki, C., (2012) "Espousal of fly ash+ clay as innovative backfill material for construction of reinforced bridge embankment", 2nd International conference ICCEBS, at Bali, Indonesia, 30 June- 1st July 2012.
25. Vashi, J., Desai, A., Solanki, C., (2011) "Geosynthetic – Alternative material for low cost pavement", 2nd International conference (NUiCONE) at Nirma institute of technology, Ahmedabad, 08-10 December 2011.
26. Gohil, D., Solanki, C., Desai, A., (2011) "The interactive forces and the moment for the soil-geosynthetic-foundation-building systems under earthquake loading", international symposium on advances in ground technology and geo-information (IS-AGTG), Singapore, 1-2 December 2011.
27. Vashi, J., Desai, A., Solanki, C., (2011) "Significance of creep compatibility study for geosynthetic compacted field", International conference on advanced civil engineering (ICACE), Vaddeswaram, Guntur, A.P., India, 21-23 October 2011.
28. Kalpana Maheshwari, Dr. Atul Desai & Dr. C. H. Solanki, (2011) "New Technique for Ground Improvement for Road and Building Construction",

Geo-Innovation Addressing Global Challenges, 14th Pan-American Conference on Soil Mechanics and Geotechnical Engineering October 2-6, 2011, Toronto, Ontario, Canada.

29. Gohil, D., Solanki, C. and Desai, A., (2010) "Geosynthetics for ground improvement: An overview", Sixth international congress on environmental geo-techniques, New Delhi, India. 8-12 November 2010.
30. Dalal, N., Solanki, C. and Desai, A., (2010) "Geotechnical Aspects of Municipal Solid Waste Landfill Site: A case Study of Surat City" 6th International Congress on Environmental Geotechnics at New Delhi, 8th to 12th November, 2010.
31. Vashi, J., Desai, A., Solanki, C., (2010) "Innovative Environment Friendly New Material for the Road Construction", International Conference, Cairo, Egypt, 2010.
32. Solanki, C.H., (2010) "Quick Computation of Settlement for Shallow Foundation of Alluvial Deposits", International Conference on Chemical, Civil and Environment Engineering (ICCEE-2012), Dubai (UAE), March 2010.
33. Dalal, N., Solanki, C. and Desai, A., (2009), "State of the art Review of Seismic Behavior and Field Performance of Cover and Liner systems of Solid Waste Landfills" International conference on Advances in Concrete, Structural and Geotechnical Engg., BITS Pilani, Rajasthan, 25-27, Oct. 2009.
34. Maheshwari, K., Solanki, C. and Desai, A., (2009), "performance of the fiber reinforced soil", International Conference on Advances in Concrete, Structural and Geotechnical Engineering (ACSGE), BITS pilani, India, 25-27 October 2009.
35. Solanki, C. H., Desai M., (2008) "Preconsolidation Pressure from Soil Index and Plasticity Properties", The 12th International Conference of International Association for Computer Methods and Advances in Geomechanics (IACMAG), Goa, October 2008.
36. Solanki, C.H., (2008) "Coefficient of Consolidation from Plasticity Characteristics of Soil", Proceedings of the BGA International Conference on Foundation, Dundee, Scotland, June 2008.
37. Solanki, C.H., Desai J., (2008) "Significance of Atterberg Limits on Compressibility Parameters of Alluvial Deposits- New Correlations", Australian Geomechanics, Australia, March 2008.

National Conference

1. Tejaswani Shukla, Mohit Mistry, Chandresh Solanki, Sanjay Kumar Shukla, Shruti Shukla "Influence of randomly distributed waste tire fibres on

- swelling behaviour of expansive soils in Surat”, Indian Geotechnical Conference, Bangalore, 13-15 December, 2018.
2. Angadi, S., Hiravennavar, A., Desai, M. K., Solanki, C. H., and Dodagoudar, G. R. “Development of Gutenberg-Richter Recurrence Relationship Using Earthquake Data”, Green Building and Sustainable Engineering.
 3. Sandeep Singh, Chandra Bogireddy, C. H. Solanki, Vaswanala. S. A “Experimental Investigation on Geotechnical Properties of Nano-Chemically Treated Soil”, Indian Geotechnical Conference 2017 GeoNEst, Submission Code: Th09_285, 14-16 December 2017, IIT Guwahati, India.
 4. Sandeep Singh, Chandra Bogireddy, C. H. Solanki, Vaswanala. S. A “Experimental Investigation and Microstructural Analysis of Nano-Chemically Treated Clayey Soil”, Indian Geotechnical Conference 2017 GeoNEst, Submission Code: Th09_285, 14-16 December 2017, IIT Guwahati, India.
 5. Ganesh Sutar, Chandra Bogireddy, C. H. Solanki, (2017) “Comparative Study of Curve Fitting Methods and Field Observatory Methods Practiced to Evaluate the Coefficient of Consolidation- A Review”, Conference On Numerical Modeling In Geomechanics, CoNMIg 2017 (March 3-4, 2017), Conference Proceedings, Department of Civil Engineering, Indian Institute of Technology, Roorkee, Paper No.37, Page:285-294.
 6. Tanmay Jain, Gulshan Yadav, Chandra B, Solanki. C H. (2015), “ Comparative Study of Effect of Waste Material on Black Cotton Soils in Surat Region- A Review” Indian Geotechnical Conference-2015, Pune, Page 12, 17th-19th Dec 2015.
 7. Sai Krishna T, Chandra B, Nagendra Pradesh K, Solanki C H, (2015), “ Effect of Fine Fraction on Shear Parameters of Sand-clay Mixtures” Indian Geotechnical Conference- 2015, Pune, Page 504, 17th-19th Dec 2015
 8. Chandra. B, Vinod Kumar. A, Dr. Solanki C. H, Dr. Vaswanala. S. A., (2015) “Critical Analysis of Compression Behaviour of Soft Soils”, National Conference on Research Trends in Civil Engineering, Dept. of Civil Engineering, HJD Institute of Technical Education and Research, Kera-Kutch, Bhuj, Gujarat, India, 22nd -24th April 2015. (Best Paper Award)
 9. Jaymin D Patil, Dr. Sandeep A Vaswanala, Dr. Chandresh H Solanki, (2015) “An Experimental Study on Behaviour of Piled Raft Foundation”, 5th Young Indian Geotechnical Engineers Conference 2015, March 14-15, 2015, Vadodara, India.
 10. Chavda Jitesh, Solanki C.H., Desai A. K., (2015) “Physical and numerical study on behaviour of pile wall retention system for deep excavations”, 5th Young

Indian Geotechnical Engineers Conference 2015, March 14-15, 2015, Vadodara, India.

11. Shukla S.J., Desai A.K., Solanki C.H., (2015) "A study of behaviour of Piled raft foundation for tall building with variable sub soil by time history: Fem Model", 5th Young Indian Geotechnical Engineers Conference 2015, March 14-15, 2015, Vadodara, India.
12. Yogendra Tandel, Chandresh Solanki, Atul Desai, (2015) "Full Scale load tests on geosynthetic reinforced stone column", 5th Young Indian Geotechnical Engineers Conference 2015 March 14-15, 2015, Vadodara, India.
13. Athani. S. S, A. Ghorpade, C. H. Solanki, (2015) "A review: Factors affecting the safe performance of a dam", 5th Young Indian Geotechnical Engineers Conference 2015 March 14-15, 2015, Vadodara, India.
14. Chandra. B, Solanki C. H., Eswara Rao. S. and Harshavardhan Reddy. M., (2015) "Effect of Fine Fraction on Engineering Behaviour of Tropical Residual Soil", 5th Young Indian Geotechnical Engineers Conference 2015 March 14-15, 2015, Vadodara, India.
15. Athani. S. S., Budde.S, Shivamant, Chandra. B and C. H. Solanki, (2015) "Numerical Analyses on Effects of Cutoff Wall Beneath Dam Using Fem", 5th Young Indian Geotechnical Engineers Conference 2015 March 14-15, 2015, Vadodara, India
16. Athani.S.S, C. H. Solanki, G. R. Dodagoudar, (2015) "Soil- Structure Interaction of buildings on sloping ground subjected to seismic excitation", 5th Young Indian Geotechnical Engineers Conference 2015 March 14-15, 2015, Vadodara, India.
17. Siddharth G. Shah, Dr. C. H. Solanki, (2015) "Seismic response of cable-stayed bridge with intermediate side span support including soil-structure interaction", 5th Young Indian Geotechnical Engineers Conference 2015 March 14-15, 2015, Vadodara, India.
18. Athani.S.S, A. Ghorpade, C.H. Solanki, (2015) "Experimental Study on compaction characteristics of black cotton soil using Lime and Jute", 5th Young Indian Geotechnical Engineers Conference 2015 March 14-15, 2015, Vadodara, India.
19. Shivakumar. S. Athani, Shridhar. S. Pujar, C.H. Solanki, (2015) "Use of Geosynthetics in the Foundation System and Road Construction for Mechanical Stabilization and Reinforcement Purpose", Geotechnical for Inclusive Development of India (GEOIND, Proceeding of Indian Geotechnical Conference, IGS Kakinada Chapter, IGS 2014, pp: 1130-1134, 18th -20th December 2014.

20. Chavda. J. T., Solanki. C. H., Desai. A. K., (2014) "Study on Behaviour of Diaphragm Wall Used as Retention System for Deep Excavations", Geotechnical for Inclusive Development of India (GEOIND, Proceeding of Indian Geotechnical Conference, IGS Kakinada Chapter, IGS 2014, pp: 1510-1515, 18th -20th December 2014.
21. Manish H. Sharma, Solanki. C. H., (2013) "Evaluation of Liquefaction Potential of an Area", Short Term Training Programme on Geotechnical Investigation, Interpretations and Improvements, (GIII-2013), Surat October 2013.
22. Uma Chaduvula, Dr. A. K. Desai, Dr. C. H. Solanki., (2013) "Application of Triangular Polypropylene Fibers on Soil Subjected to Freeze Thaw Cycles", National Seminar on Advances in Geotechnical Engineering, SVNIT, Surat, June 2013.
23. K. V. Maheshwari, Dr. A. K. Desai, Dr. C. H. Solanki., (2013) "Innovative ground improvement method for road construction", National Seminar on advances in Geotechnical Engineering, SVNIT, Surat, June 2013.
24. Vashi, J., M., Desai, A., Solanki. C. H., (2013) "Reinforced Earth Embankment with Fly Ash Backfill", 2nd National Seminar cum Workshop on Use of Flyash in Construction, UFAC 13, Surat 2013.
25. Manish H. Sharma, Solanki. C. H., (2013) "Liquefaction Susceptibility Criteria's for Zonation Mapping", Advances in Geotechnical Engineering (AGE-2013), Surat 2013.
26. Gohil D. P., Dr. A. K. Desai, Dr. C. H. Solanki., (2013) "Shear stress response under shallow foundation rest on reinforced soil against seismic loading" National Seminar on advances in Geotechnical engineering , SVNIT, Surat, June 2013.
27. Shailendra Kumar, Solanki. C.H., (2013) "Bearing Capacity Improvement of Embedded Square Footing on Geotextile Reinforced Sand" National Seminar on Advances in Geotechnical Engineering, SVNIT, Surat, June 2013.
28. Nehal G. Dalal, Dr. A. K. Desai, Dr. C. H. Solanki., (2013) "Numerical analysis of improvement of bearing capacity of open waste dump site using geosynthetics" National Seminar on advances in Geotechnical engineering , SVNIT, Surat, June 2013.
29. Doshi D. P, Dr. A. K. Desai, Dr. C. H. Solanki., (2013) "Innovative techniques of micro piles for Embankment Foundation", National Seminar on advances in Geotechnical engineering, SVNIT, Surat, June 2013.
30. Doshi, D., Desai, A., Solanki. C. H., (2012) "Micro piling For Retrofitting of Structures", Structural Engineering Convention (SEC-12), SVNIT, Surat, 19-21 December.

31. Gohil, D., P., Desai, A., Solanki. C. H., (2012) "Effect of Soil-Geosynthetic Structure Interaction", Structural Engineering Convention (SEC-12), SVNIT, Surat, 19-21 December.
32. Maheshwari, K., V., Desai, A., Solanki. C. H., (2012), "Analytical Modeling Of Foundation Resting On Fiber Reinforced Clayey Soil", 8th Biennial Conference on Structural Engineering Convention (SEC-12), SVNIT, Surat, 19-21 December 2012.
33. Shukla, S., J., Desai, A., Solanki. C. H., (2012), "Behavioural Study of Multi Storey Building with Piled Raft Foundation over Raft Foundation for Static Loading", Structural Engineering Convention (SEC-12), pp: 529-533, SVNIT, Surat, 19-21 December.
34. Tandel, Y., K., Desai. A., Solanki. C. H., (2012) "Application Of Pervious Concrete For Strengthening Of Stone Column For Ground Improvement", Structural Engineering Convention (SEC-12), SVNIT, Surat, 19-21 December.
35. Vashi, J., M., Desai, A., Solanki. C. H., (2012) "Geotextile Reinforced Steep Embankment (GRSE) on weak ground", Structural Engineering Convention (SEC-12), SVNIT, Surat, 19-21 December 2012.
36. Sharma V.J., Vasavalva S. A., and Solanki. C. H., (2012) "Effect of Elasticity Modulus of Cushion on Properties of Composite Pile Raft Foundation", Structural Engineering Convention (SEC-12), page: 549-553, SVNIT, Surat, 19-21 December 2012.
37. Manish H. Sharma, Solanki. C. H., (2012) "Liquefaction Hazard Mapping", Structural Engineering Convention (SEC-12), SVNIT, Surat, 19-21 December 2012.
38. Maheshwari, K, Solanki. C.H, Desai, A.K., (2011) "Application and Modeling for Fiber Reinforced Soil", Proceeding of Indian Geotechnical Conference, Kochi, Kerala, pp: 497-500, December 2011.
39. Dalal, N., Solanki, C. and Desai, A., (2011) "Geosynthetics used as a ground improvement technique for the municipal solid waste landfill site", National seminar on advance in geotechnical engineering (AGE), Indian geotechnical society, AMD, SVNIT, Surat, 8-9 October 2011.
40. Vashi, J., Desai, A., Solanki. C., (2011) "Effect of strain rate on stress strain characteristics of geotextile", Two days national workshop: Advances in geotechnical engineering- AGE, AMD, SVNIT, Surat, 08-09 October 2011.
41. Solanki. C.H., (2011) "Study on Recent Development in Sand Column", Two Days National Workshop – AGE Advances in Geotechnical Engineering, SVNIT, Surat, October 2011.

42. Maheshwari, K., Desai, A, Solanki. C.H., (2011) "Fiber Reinforced Earth for Canal Lining", Two Days National Workshop – AGE Advances in Geotechnical Engineering, SVNIT, Surat, October 2011.
43. Dipali Joshi, A.K. Desai, C. H. Solanki, (2011) "Multi Helix Micropile for Retrofitting of Bridge Foundations", Innovation in Piling and other Foundation Construction Techniques, IGS (2011), Kochi, page no 247 to 250. (Best Paper Award)
44. Vashi, J., Desai, A., Solanki, C., (2011) "Important properties emphasis to GRS structures", National conference on new horizon for sustainable tomorrow (NHST), at Surat, 18-19 February 2011.
45. Maheshwari, K., Desai, A, Solanki. C.H., (2011) "Actual Full Scale Load Test on Fiber Reinforced Clayey Soil", National Conference on Recent Advances in Ground Improvement Techniques, CBRI, Roorkee, Feb 2011.
46. Tandel, Y., Solanki, C., Desai, A., (2011) "Recent Advance in Reinforced Stone Column Technique", National Conference on Recent Advances in Ground Improvement Techniques, CBRI, Roorkee, Feb 2011.
47. Berawala, K. S., Solanki, C. H., (2010) "Empirical Correlations of Expansive Soils Parameters for the Surat Region", Indian Geotechnical Conference-2010, GEOTrendz, December 16–18, 2010, IGS Mumbai Chapter & IIT Bombay.
48. Maheshwari, K, Solanki. C.H, Desai, A.K., (2010) "Model Footing Tests on Fiber Reinforced Soil", Indian Geotechnical Conference, Geotrendz, pp: 16-18, Bombay, December 2010.
49. Gohil, D., Solanki. C.H. & Desai, A., (2010) "Model Earthquake Wave Energy Flow and Distribution", Indian Geotechnical Conference, IIT Bombay, December 2010.
50. Dalal, N., Solanki, C. and Desai, A, Desai M. D., (2010), "Pilot study to improve bearing capacity of open dump waste site for low rise housing", India Geotechnical Conference – 2010, GEOTrendz, IIT Bombay, December 16-18, 2010.
51. Dalal, N., Solanki, C. and Desai, A. (2010), "Pilot Studies for feasibility of Open waste dump site to improve the bearing capacity for low cost housing", Indian Geotechnical Conference'10, IITB December 2010.
52. Vashi, J., Desai, A., Solanki, C., Desai, M., (2010), "State of art: Factor influenced in design of earth retaining structure", Indian geotechnical conference, at IITB, Mumbai, 16-18 December 2010.
53. Vashi, J., Desai, A., Solanki, C., Desai, M., (2010) "Geosynthetic material and its properties for reinforced earth structure", All India Seminar on

Geosynthetic in Civil Engineering, The Institution of Engineers (India), Ahmedabad, 27-28 November 2010.

54. Vashi, J., Desai, A., Solanki, C., Desai, M., (2010) "Fly ash as backfill material for reinforced earth structure", National conference on fly ash/Futuristic materials in civil engineering construction for sustainable development, at V.V. Nagar, Anand, 12 August.
55. Shukla, S., Desai, A. and Solanki, C. (2010) "A detailed literature review of behavior of piled raft foundations", Proc. Of national conference on improvement techniques in civil engineering (ITCE), Alagappachettiar college of engineering and technology, Karaikudi, 9th April 2010.
56. Dalal, N., Solanki, C. and Desai, A. (2010) "Engineering properties of municipal solid waste landfill site: An overview", current trends of research & development in civil & environmental engineering (CRDCE), SVIT, Vasad, Gujarat, 21-22 January 2010.
57. Gohil, D., Solanki, C. and Desai, A. (2010), "A study: To improve ground by geosynthetics", Current trends of research & development in civil & environmental engineering (CRDCE), SVIT, Vasad, Gujarat, 21-22 January 2010.
58. Gohil, D., Solanki, C. and Desai, A., (2009) "Application of Geosynthetics for Ground Improvement: An Overview", Indian Geotechnical Conference, Geotechniques in Infrastructure Development [GEOTIDE], Guntur, Andhra Pradesh, 17-20 December 2009.
59. Solanki, C.H., (2009) "Empirical Model for Settlement of Shallow Foundation of Alluvial Deposits", Indian Geotechnical Conference, Guntur, December 2009.
60. Maheshwari, K., Desai, A. and Solanki, C., (2009) "Fiber reinforced soil – innovative modern technique", National conference on current trends in technology (NUCONE), pp: 109-112, Nirma institute of technology, Ahmadabad, 25-27 November 2009.
61. Solanki, C.H., (2009) "FEM Analysis and Design of Diaphragm Type Cellular Cell Using Straight Web Steel Sheet Pile", ACSGE, BITS Pilani, 2009.
62. Solanki, C.H., (2009) "Expansive Soils in India- Properties, Problems and case Study", International Conference on Infrastructure Development on Expansive Soil-INDEX-09.
63. Nishant & Solanki, C.H., (2006), "Study of Preconsolidation Pressure for Varying Compressible Soils", National Conference on Corrective Engineering Practices in Troublesome Soils (CONCEPTS), IGS, Kakinada, July 2006.

64. Solanki. C.H., (2006) "Soil Index and Consolidation Properties of Alluvial Soils-New Correlations", IGC-2006, IIT, Madras, December 2006.
65. Solanki. C.H., (2005) "Prediction and Performance of Consolidation Settlement of Shallow Foundations", Indian Geotechnical Conference, Ahmedabad, 2005.
66. Shukla. S. J. & Solanki. C.H., (2005) "Stone Column A Rational and Viable Solution for Environment and Economy", Indian Geotechnical Conference, Ahmedabad, 2005.

WORKSHOPS / SEMINARS / CONFERENCES ORGANISED:

1. Organized one of the prestigious conferences named Indian Geotechnical Conference (IGC) 2019. Contributed as a chairman in the conference. It was highly appreciated by the Indian Geotechnical Society.
2. Structural Engineering Convention (SEC-12), 19-21 December 2012
3. Two Days National Seminar on "Pile Foundations- Advances in Design and Construction Practices, 27-28 May 2017.

TRAINING PROGRAMMES ORGANISED:

1. 5 Days STTP on Geotechnical Investigations, Interpretations and Improvements, 18th -22nd October, 2013 at SVNIT, Surat
2. Short Term Training Program on Advances in Geotechnical Engineering (AGE), 25th June to 4th July 2014 at SVNIT, Surat.
3. Geotechnical Investigations, Interpretations & Improvements (GIII-2015), 14-18th July 2015 at SVNIT, Surat
4. One Week Short Term Course on Geotechnical Aspects of Foundation Engineering (GAFE-2016), 17th – 21st October 2016 at SVNIT, Surat
5. One day National Seminar on "Conceptual Soil Mechanics", 3rd February, 2018 at SVNIT, Surat.
6. One day international short course on "Fibre-Reinforced Soils and Their Applications", 22nd September, 2018 at SVNIT, Surat

BOOKS / RESEARCH MONOGRAPH

1. Contaminant Transport Modeling through Saturated porous media using finite element and finite difference methods Lambert Academic Publications German, ISBN-13: 978-3-659-52607-7, 2014
2. New Empirical Correlations for Compressibility Parameters of Alluvial Deposits Scholar's Press, ISBN: 978-3-639-66152-1, 2014

3. Advances in Geotechnical Engineering (AGE-2013) Excel Indian Publishers, ISBN: 978-93-82062-40-0

EXPERT LECTURES DELIVERED

1. Geotechnical Information's STTP on Advances in Geotechnical Engineering, SVNIT, Surat, December 2008 & January 2009
2. Empirical Model for Settlement of Shallow Foundation STTP on Advances in Geotechnical Engineering, SVNIT, Surat, December 2008 & January 2009
3. Foundation for Structure Advances in Steel Structures, August 2009
4. Geotechnical Resources STTP on Geotechnical Investigations, Interpretations and Improvements, SVNIT, Surat, August 2009
5. Geotechnical Investigations STTP on Geotechnical Investigations, Interpretations and Improvements, SVNIT, Surat, January 2010
6. Research Paper Review STTP on Geotechnology for Infrastructure Development, SVNIT, Surat, January 2010
7. Geotechnical Investigations & Parameters National Workshop on Soil Exploration and Foundation Design, IGS Baroda, June 2010
8. Sub Soil Geotechnical Investigation for Infrastructure projects STTP on Geotechnical Investigations, Interpretations and Improvements, SVNIT, Surat, October 2013
9. Predictions in Geotechnical Engineering STTP on Geotechnical Investigations, Interpretations and Improvements, October 2013
10. Quick Settlement analysis of cohesive alluvial deposits using new empirical correlations for compressibility parameters STTP on Geotechnical Investigations, Interpretations and Improvements, SVNIT Surat, October 2013
11. Geotechnical Resources STTP on Geotechnical Investigations, Interpretations and Improvements, SVNIT Surat, October 2013
12. Geotechnical Investigations and parameters L D College of Engineering, Ahmedabad, November 2013
13. Geotechnical investigations for Structures Datte Mega Engineering College, Navi Mumbai, December 2013
14. Geotechnical Investigations and weak deposits Mukesh A Patel Testing Laboratory, Ahmedabad, January 2014
15. Geotechnical Investigations and identification of weak deposits Finishing School cum Workshop on Ground Improvement Techniques, SVNIT, Surat, February 2014

16. Geotechnical Earthquake Engineering- Liquefaction Surat Urban Development Authority-SUDA, Surat, 29 November 2014
17. Quick Computation of Foundation Settlement using Empirical correlations 8th International Conference on Electrical, Electronics and Civil Engineering (ICEECE-16), Dubai (UAE), 12 January 2015
18. Soil Investigations & Parameters Geotechnical Investigations, Interpretations & Improvements (GIII-2015), SVNIT, Surat 14-18th July 2015
19. Foundation settlement & its Predictions Geotechnical Investigations, Interpretations & Improvements (GIII-2015), SVNIT, Surat 14-18th July 2015
20. Emerging Research Trends in Geotechnical Engineering Civil Engineering Department in association with Research and Development Committee, SCET, organized an Expert Talk, 10th February 2016
21. Geotechnical Investigation and Soil Structure Interaction Civil Engineering Department of C. G. Patel institute of technology, UTU, Bardoli, Gujarat, 26-27 February 2016
22. Geotechnical Earthquake Engineering Earthquake Engineering for Engineers and Architects-2016, SVNIT, Surat, 25 February 2016
23. Geotechnical Earthquake Engineering Earthquake Engineering for Engineers and Architects-2016, SVNIT, Surat, 04 February 2016
24. Geotechnical Investigations National Conference on Geotechnique for Infrastructure Developments, Dept. of Civil Engineering, Dr AGTI, Banawadi, 7-8 February 2016
25. Soil Properties, Investigations & Interpretations Two Weeks Short Term Training Programme on "Recent Trends in Foundation Engineering" BVM Engineering College, VV Nagar, May 16-28, 2016
26. Soil Properties & Interpretations One Week Self Finance Short Term Training Program on Recent advances in Testing Methodology and Techniques for Engineered Materials, SVNIT, Surat, 20-24 June, 2016
27. Soil Properties and Exploration Short Term Training Program on "Soil Investigations and Design of Foundations" MNIT, Bhopal 27th June-1st July 2016
28. Predictions in Geotechnical Engineering National Conference on New Horizons in Civil Engineering (NHCE-2017), SCET, Surat, 22 March 2017
29. Soil Investigations and Interpretations the Institute of Civil Engineering and Architects, Surat, 25th March 2017

30. Soil Investigation and Interpretations One Day National Conference on Recent Advancements in Geotechnical Engineering (NCRAF-2017) Department of Civil Engineering (Geotechnical) Government College of Technology Coimbatore, 28th March 2017
31. SOIL PROPERTIES & INTERPRETATIONS Two Days Training Programme for RPMG C & S Group for Skill Enhancement, Schedule of Reliance Mumbai, 19-20, May 2017
32. Soil Properties, Investigations & Interpretations Department of Civil Engineering Institute of Technology Nirma University, Ahmedabad, 11 Sept 2017
33. Geotechnical Aspects of Foundation Engineering Department of Civil Engineering Institute of Technology Nirma University, Ahmedabad, 11 Sept 2017
34. Soil Properties, Investigations & Interpretations Civil Engineering Department, SSASIT, Surat, 19 Sept 2017
35. Soil Properties, Investigations & Interpretations Department of Civil Engineering, S N Patel Institute of Technology & Research Centre, Umrah, 20 Sept 2017
36. Safe Bearing Capacity of Soil Civil Engineering Department, SCET, Surat, 26 Sept 2017
37. Soil Properties, Investigations & Interpretations A one week short term course on Recent innovations in Civil Engineering, Dept. of Civil Engg., Datta Meghe College of Engineering, Mumbai, 18-23 Dec 2017
38. GGBS & PSC Cement Durable, Economic, Green concrete with PSC & GGBS, Vadraj Cement, Surat, 24 Dec 2017
39. Soil Properties, Investigations & Interpretations, Parul Institute of Technology, Baroda, August 2018
40. Soil Properties, Investigations & Interpretations, FETR College, Bardoli, 06 Feb 2019

M.TECH.DISSERTATIONS SUPERVISED

1. Margi Dave (P17SM002) Parametric Study of Buried Pipe and its Protection Using Geosynthetics, 2018-19
2. Shyam Ajaykumar Hathiwala (P17SM004) Investigation of Swelling, Compressibility and Strength Characteristics of Expansive Soil using Limestone Calcined Clay Cement, 2018-19
3. Brijesh Kumar Agarwal (P17SM008) Study on Strength Parameters of Lime Stabilized and Fibre Reinforced Expansive Soil, 2018-19

4. Venkateswarlu Polugari (P16SM017) A Small-Scale Physical Modeling of Randomly Distributed Waste Tire Shredded Fibre Reinforced Cohesive and Cohesionless Soils, 2017-18
5. Tejaswani Shukla (P16SM005) Compressibility Characteristics and Rebound Behaviour of Randomly Distributed Fibre Reinforced Expansive Soils, 2017-18
6. Pragati S. Gaoture (P16SM020) Solidification/Stabilization and Leaching Performance of Zn^{2+} Contaminated Soils Using Calcined Clay, 2017-18
7. Roop Narayan Meena (P16SM019) Leaching Strength and Micro-Structure Characterization of Pb^{2+} Contaminated Soil Using Metakaolin as a Binding Agent 2017-18
8. Mayuresh D Bakare (P15SM002) Comparative Study of Analytical and Numerical Analysis of Geosynthetic Reinforced and Unreinforced Railway Track Foundation, 2016-17
9. Sandeep Singh (P15SM004) Experimental Investigation and Microstructure Analysis of Nano-Chemically Treated Soil, 2016-17
10. Amit Joshi (P15SM009) Bioenzymatic and Bioenzymatic-Lime Stabilization of Soil, 2016-17
11. Ganesh Mahadev Sutar (P15SM010) Analysis of Methods Practiced to Evaluate Coefficient of Clayey Soil, 2016-17
12. Siddharth Pathak (P15SM008) Experimental and Numerical Analysis of Compressibility behaviour of Clayey Soil, 2016-17
13. Mypati Vamsi Navya Krishna (P14SM016) The Size and Shape Characterization Using Digital Image Analysis, 2015-16
14. Srilakshmi K Nair (P14SM010) Spectral Ratios and Site Amplification Study of Himalayan Region, 2015-16
15. Kulkarni Sanchay Ramchandra (P14SM007) Numerical and Physical Modelling in Tunnelling in Urban Environment, 2015-16
16. Aiswarya (P13SM017) Study of Rock and Soil Intraplate Response Spectrum and Comparison with Interpolate SPECTRUM, 2014-15
17. Rachna Bobachan (P13SM010) Bearing capacity of Shallow Footings Placed on Soft Clay Stabilized with Granular Trench, 2014-15
18. Anjali Uday (P13Sm015) Estimation of Duration and Damping Reduction Factor for Himalayan Region, 2014-15
19. Shivakumar S Athani (P13SM008) Numerical Analysis of earth Dam with Seepage Barrier Using FEM, 2014-15
20. Jiji Krishnan TU (P13SM005) Evaluation of Shear Viscosity using Fall Cone, 2014-15

21. Desai Smit Atul (P12SM005) Static and Dynamic Analysis of Nuclear Reactor Containment Vessel Using FLAC3d, 2013-14
22. Chavda Jitesh Tribhuvandas (P12SM008) Study on Behaviour of Pile Wall Used as Retention System for Deep Excavation: Experimental & Numerical Study, 2013-14
23. S Kavya (P12SM010), Performance Evaluation of Buried PIPELINES, 2013-14
24. Anand M HULAGABALI (P12SM013) Contaminate Transport Modeling Through Saturated porous Media Using Finite Element and Finite Difference METHODS, 2013-14
25. Mohsin Jamal (P11SM014) Model Studies on Small Group Behaviour of Reinforced Sand Column, 2012-13
26. Vivek Deepjeet Kushwaha (P11SM033) Studies of Small Group of Stone Column by Three-Dimensional Numerical Analysis, 2012-13
27. Patel Maharshi Jitendra (P11SM009) A Parametric Study of Geosynthetic Reinforced Pile Supported EMBANKMENT, 2012-13
28. Kinjal R Shah (P10SM627) Application of Polyester Fibers on Stability of SLOPE, 2011-12
29. C Rajagopal (R10ST505) Some Studies on Comparison of Static and Dynamic Load test of Bored Pile, 2011-12
30. Pakala Srikanth (R09ST501) Effect of Pore Water Pressure on large Raft Foundation-Lift Off-FEM Analysis, 2010-11
31. Solanki Gunvant R (P09SM601) Experimental Study on Stabilization of Expansive Soil with Stone Dust, Fly Ash and Fibers, 2010-11

DOCTORAL SUPERVISION - COMPLETED

1. Experimental study on square footing resting on geotextile reinforced sand, Shailendra Kumar, SVNIT, (Degree Awarded)
2. Liquefaction Hazard Zonation Mapping of Dahej, Bharuch, Gujarat, Manish H. Sharma, SVNIT, (Degree Awarded)
3. An Experimental and FEM Study of Geosynthetically Encased Floating Stone Column, Himmat K. Sarvaiya, (Degree Awarded)
4. Seismic Hazard Analysis to Determine Ground Motion for Gujarat Region And Site Characterization at Somnath Temple, Shivamant Angdi, (Degree Awarded)
5. Study on Pervious Concrete Column for Ground Improvement, Jignesh B. Patel, SVNIT, (Degree Awarded)
6. Effect of Soil-Structure Interaction on Seismic Response of Cable-Stayed Bridges, Shah Siddharth G, SVNIT, (Degree Awarded)

7. Experimental and Numerical Analysis of Foundation Settlement for Different Geosynthetics in Open Waste Dump Site, Nehal Gaurav Dalal, SVNIT, (Degree Awarded)
8. Performance of Shallow Building Foundation Constructed on Geogrid Improved Ground, subjected to Earthquake Forces, Gohil Divyangini Paresh, SVNIT, (Degree Awarded)
9. A Study of Behavior of Reinforced Stone Column for Ground Improvement Yogendra K. Tandel, SVNIT (Degree Awarded)
10. Rapid Assessment of Compressibility Behaviour of Clayey Soil from Experimental and Finite Element (FE) Simulations, Chandra Bogireddy, SVNIT, (Degree Awarded)
11. Experimental and Analytical Study on Polyester Fiber Reinforced Clayey Soil, Kalpana Maheshwari, SVNIT, (Degree Awarded)
12. A Study of Piled Raft Foundation with Variable Subsoils for High- Rise Buildings, Shruti Shukla, SVNIT, (Degree Awarded)
13. Feasibility Study of Geotextile Reinforced Embankment on Difficult Foundations as an Alternative to Reinforced Earth Wall in Indian Environment, Vashi Jigisha Mukeshbhai, SVNIT, (Degree Awarded)
14. A Study on Cushioned Composite Piled Raft Foundation Under Axial and Lateral Forces, Vijaykumar J. Sharma, SVNIT, (Degree Awarded)
15. Seismic Retrofitting of Bridge Foundation using Micro piles, Dipali Paresh Doshi, SVNIT, (Degree Awarded)
16. An Experimental Study on Pile Raft Foundation System in Sand, Patil Jaymin Dattu, SVNIT, (Degree Awarded)

DOCTORAL SUPERVISION - ONGOING

17. Seismicity and Ground Response Analysis for a Particular Site at Indore, Deepshikha Shukla, SVNIT, Ongoing
18. An Experimental Study on Soft Clay using Corex Slag Reinforced with Terrazyme, Vipul Kumar Vasiya, SVNIT, Ongoing
19. Lateral Behaviour of Geo grid Reinforced CFG Pile Supported Embankment over Expansive Soil under Static & Dynamic Loading, Nirav Umrvavia, SVNIT, Ongoing
20. Analysis of Laterally Loaded Pile Group, Avinash Navale, SVNIT, Ongoing
21. Static and Seismic Response Analysis of Reinforced Earth Retaining Wall, Anand Hulagabali, SVNIT, Ongoing

22. Solidification/Stabilization of Industrial Contaminated Soil using Limestone Calcined Clay Cement, Vemula Anand Reddy, SVNIT, Ongoing
23. Study of Fibre-Clay Interface Behaviour and Reinforcing Mechanism, Mohit K. Mistry, SVNIT, Ongoing
24. Seismic Hazard Analysis and Microzonation Study of Bharuch Region, Manali S. Patel, SVNIT, Ongoing
25. Effect of Degree of Saturation on Strength Properties of Soil and it's Numerical Analysis, Bhavita S. Dave, SVNIT, Ongoing
26. Study on Behaviour/ Interaction of Binghamin & Newtonian Grouts With Sandy Soils, Nazimali Chinwala, SVNIT, Ongoing
27. Experimental Study of Ultimate Load in Sandy Soil by Soil Nailing- Horizontal Nailed v/s Inclined Nailed, Chirag Mendpara, SVNIT, Ongoing

CONSULTANCY WORK

- Involved in the consultancy work of approximately 1 Crore in last five years.

ABROAD VISIT

1. **Chaired a session** in the conference named Environmental Geotechnology, Recycled Waste Materials and Sustainable Engineering, 2019, June 16-20, 2019, The University of Illinois, Chicago, USA.
2. **Attended conference** and presented a paper on Problematic Soils at Malaysia in the year 2006.
3. **Visited** National University of Singapore in the year 2006.
4. **Attended conference** and presented a paper at Dubai in 2012
5. **Attended conference** and presented a paper in Bangkok in 2013
6. **Chaired a session** and attended conference named Fourth International Conference on Geotechnique, Construction Material and Environment, GEOMATE2014 at Australia in the year 2014.
7. **Delivered Keynote Lecture** and attended conference named 8th Conference on Electrical, Electronics and Civil Engineering at Dubai in the year 2016
8. **Attended conference** and published a paper at Egypt in 2017

DEPARTMENTAL & INSTITUTE LEVEL ACTIVITIES

A. Departmental Level

1. PG In charge, 21/10/2010 to 24/09/2015
2. Geotechnical Engineering Laboratory 28/02/2014 to 28/02/2017.
3. Member, Departmental Research Committee.
4. Department exam coordinator.
5. Worked as Time table committee member

B. Institute Level Activities

1. Head of Department, 10/06/2016 to 30/6/2018.
2. Dean Planning & Development, 01/04/2015 to 31/05/2016
3. Faculty Coordinators at the Anchor Institute Cell, 15/09/2009 to 18/10/2011
4. Faculty Coordinators at the Anchor Institute Cell, 18/10/2011 to 15/09/2013
5. Guest House In charge, 29/10/2013 to 31/03/2015
6. 7th CPC Chairman Class (III and IV), 29/12/2017 to 01/11/2019.
7. CAS Institute Committee, 26/05/2012 to 01/11/2019.
8. Liaison Officer of SC/ST Cell, 24/04/2017 to 10/06/2019.
9. 7th CPC Chairman Faculty Fixation, 09/11/2017 to 01/11/2019
10. Worked as hostel warden.