

Prof. Neelima Satyam

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EMPLOYMENT

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|---|-----------------------|
| Professor Department of Civil Engineering IIT Indore | Feb 2022 - till date |
| Associate Professor Department of Civil Engineering IIT Indore | Nov 2017 - Feb 2022 |
| Associate Faculty, Center for Rural Development & Technology IIT Indore | Feb 2020 - till date |
| Associate Faculty, Center for Indian Knowledge systems IIT Indore | Oct 2020 - till date |
| Visiting Researcher Institute of Geophysics University of Stuttgart Germany | June - July 2018 |
| Assistant Professor Earthquake Engineering Research Centre International Institute of Information Technology Hyderabad India | Feb. 2009 - Nov. 2017 |
| Visiting Scientist (JSPS Fellow) Geotechnical Laboratory University of Tokyo, Japan | Jan. 2013- March 2013 |

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| Visiting Faculty National Academy of Construction Government of Andhra Pradesh Hyderabad, India | April 2007 - Feb 2009 |
| Research Assistant Department of Civil Engineering IIT Delhi India | 2002 - 2006 |

EDUCATION

Ph.D., Department of Civil Engineering Jan 2002-June 2006
Indian Institute of Technology Delhi

- Research Advisor: Prof. K S Rao
- Dissertation: Seismic Microzonation of Delhi Region
- CGPA: 8.9

M.Tech., Department of Civil Engineering June 2000-Dec 2001
Indian Institute of Technology Delhi

- Dissertation: Foundations on Rock
- CGPA: 8.84

B.Tech., Department of Civil Engineering June 1996- June 2000
Sri Venkateshwara University, Tirupati

- Major Project: Watershed Management of Kondreddikandriga
- Percentage: 78.2 %

AWARDS

- OSP Award, American Geophysical Union Fall Meeting 2021, for the research work on "Forecasting landslides: An Integrated Approach using Rainfall Thresholds and Realtime Field Monitoring at Darjeeling Himalayas".
- Best Research Paper Award, IIT Indore for the academic year 2020-21
- CIDC Vishwakarma Academician Award 2021, from Construction Industry Development Council (Established by Planning Commission, Government of India and the Construction Industry)
- Overseas famous scientist project (Grant no. 2020A1414010268) from Ministry of Science and Technology, Guangdong, China for visiting Shantou University, 2020- 2021
- Best collaborative team award for Aquasense research project, ITRA-Water, GoI 2015
- JSPS Research Fellow, University of Tokyo, 2012-2013
- Career Award for Young Teachers (CAYT) from AICTE, GoI, 2012

- Young Engineers Award 2011 in Civil Engineering discipline from The Institution of Engineers (India), Kolkata, India
- Young Scientist Research Award, BRNS, Department of Atomic Energy, India 2011
- Young Woman Engineer award from INWES-International Network of Women Engineers and Scientists, 2012
- Fast Track Project for Young Scientists, Department of Science and Technology, GoI, 2009
- Best technical paper award, IGC 2006 (IIT Madras, Chennai) for the Innovations in field exploration and in-situ testing, Dec 2006

RECOGNITIONS

- Reviewer at the Colloquium for Young Researchers: Towards Developing International Collaborations.
- Reviewer for Technical book in English for "Instrumentation for Civil Engineering Applications" course by AICTE.
- Expert Committee member, for deliberation on formulation of BIS guidelines - Safety and mitigation measures for the buildings and infrastructures in landslide affected areas
- Member, International Advisory Committee, CREST-2023
- Convener, Soil Dynamics and Earthquake Geotechnical Engineering -36 International Geological Congress 2020
- Convener, International Cooperation by Indian Geotechnical Society for the term 2019-2020
- Member, Preliminary Review Committee, Shastri Indo-Canadian Institute, MHRD for the term 2018-2019
- Co-opted Member, Program Advisory Committee (PAC), Civil and Environmental Engineering, Science and Engineering Research Board (SERB), DST (2015 - 2019).
- Chairperson, for MONBUKAGAKUSHO: MEXT Scholarships of Japanese Government (for selecting PhD/MS students from India) in Earthquake /Civil Engg stream (Since Feb 2018)
- Member (CPD), Engineering Council of India for Telangana and Andhra Pradesh States (Since Feb 2017)
- Member, Technical Evaluation and Monitoring Committee for design of offshore substructure, NIWE Chennai (2015-2017)
- Honorable Director, Institute and Industry Interaction: Professional Development Council, Association of Consulting Civil Engineers, India (2018-till date)
- Member, Expert committee for AEE 2016, AP Public service commission, Hyderabad
- Member, Board of studies (UG/PG in Civil Engg), Sri Venkateshwara University Tirupati (2016-2017)

JOURNAL ROLES

1. Editor of Journals

1. Editorial Board Member, Scientific Reports, Nature (I.F. 4.996), Civil Engineering Section. ([link](#))
2. Editor of Special issue "Role of natural and anthropogenic factors in slope failures", 2022, Frontiers in Built Environment (IF/ CS: 2.6)
3. Review Editor, Frontiers in Earth Science (IF: 3.498)
4. Editorial Board member, Geotechnical Engineering (specialty section of Frontiers in Built Environment), Frontier, since 2022
5. Editorial Board member and Scientific Editor (Geotechnical Earthquake Engineering and Rock Mechanics), Journal of Rock Mechanics and Geotechnical Engineering, 2022-24, Elsevier (Impact Factor 4.338)

6. Editorial Board member, Indian Geotechnical Journal, Since 2022, Springer
7. Editor of Special issue on "Landslide: Forecasting, Assessment and Mitigation", Indian Geotechnical Journal, Springer 2020
8. Editor of Special Issue on "Nature-based Solutions in Geo-environmental Engineering", Sustainability (Impact Factor 3.271)
9. Editor of proposed book "'Predictive Models for the Development of Landslide Early Warning Systems', Elsevier
10. Editor of Proceedings of Indian Geotechnical Conference, 2021 and 2022
11. Editorial Board member for the Innovative Infrastructure Solutions Journal, springer since march 2015
12. Editorial board member, International Journal of Civil Engineering and Construction Science, American Association of Science and Technology since December 2014
13. Editorial board member, International Journal of Frontiers in Geotechnical Engineering. Since July 2013.

2. Reviewer of Technical Journals

1. Computers and Geosciences
2. Catena
3. Bulletin of Engineering Geology and the Environment
4. Rock Mechanics and Geotechnical Engineering
5. Geomatics, natural hazards & risk
6. Australian journal of civil engineering
7. Natural Hazards
8. International Geotechnical Engineering
9. Sustainability, MDPI
10. Water
11. International journal of pavement research and technology
12. Arabian journal of geosciences
13. Indian Geotechnical Journal
14. Innovative infrastructure solutions
15. Nuclear Engineering and Design, Elsevier
16. Journal of Korean Society of Civil Engineering
17. Journal of Computations and materials in civil engineering
18. Indian Geotechnical conference 2016, GeoMeast 2017
19. International Journal of Earth Sciences and Engineering (IJEE) Since IGC, GeoMeast, KSCE,
20. Journal of Civil Engineering and Architecture
21. American Journal of Scientific and Industrial Research (AJSIR)
22. Earthquake Engineering and Engineering Vibration,
23. Frontiers of Geotechnical Engineering Journal
24. Seventh International Conference On Case Histories In Geotechnical Engineering and symposium (Chicago, IL area) – April 29-may 4, 2013 Nuclear Engineering and Design, Elsevier since 2015

RESEARCH PUBLICATIONS

- **Publications:** International Journals: 87 (Published), Conference Proceedings: 63 (International) 42 (National), Book chapters: 22
- **Patents:** 2 Granted, 2 Published

1. International/ National Journals

1. Nitin Tiwari, **Neelima Satyam**, and Anand J Puppala (2022), "Closure to Effect of Synthetic Geotextile on Stabilization of Expansive Subgrades, Nitin Tiwari, Aff.M. ASCE1; Neelima Satyam2; Anand Puppala, F. ASCE3", *Journal of Materials in Civil Engineering*, ASCE, <https://doi.org/10.1061/JMCEE7/MTENG-15429>, (I.F. 3.651).
2. Neharika G.N.S. and **Neelima Satyam** (2022), "Deterministic and Probabilistic Seismic Hazard Analysis of Tindharia, Darjeeling Sikkim Himalaya, India", *Journal of the Geological Society of India*, Springer, <https://doi.org/10.1007/s12594-022-2165-0>, (I.F. 1.466).
3. Monika Dagliya, **Neelima Satyam** and Ankit Garg (2022), "Biopolymer based stabilization of Indian Desert Soil against Wind induced Erosion", *Acta Geophysica*, Springer, <https://doi.org/10.1007/s11600-022-00905-5>, (I.F. 2.296).
4. Kunal Gupta, and **Neelima Satyam** (2022), "Co-seismic landslide hazard assessment of Uttarakhand state (India) based on the modified Newmark model", *Journal of Asian Earth Sciences: X*, Elsevier, <https://doi.org/10.1016/j.jaesx.2022.100120>.
5. Nitin Tiwari and **Neelima Satyam** (2022), "An Experimental Study on Strength Improvement of Expansive Subgrades by Polypropylene Fibers and Geogrid reinforcement", *Scientific Reports*, Nature, <https://doi.org/10.1038/s41598-022-10773-0>, (I.F. 4.996).
6. Meghna Sharma, **Neelima Satyam**, Krishna R. Reddy (2022), "Large-Scale Spatial Characterization and Liquefaction Resistance of Sand by Hybrid Bacteria Induced Biocementation", *Engineering Geology*, Elsevier, <https://doi.org/10.1016/j.enggeo.2022.106635>, (I.F. 6.902).
7. Nitin Tiwari, Nicola Baldoand, **Neelima Satyam**, Matteo Miani (2022), "Mechanical Characterization of Industrial Waste Materials as Mineral in Asphalt Mixes: Integrated Experimental and Machine Learning Analysis", *Sustainability*, 14(10), 5946, <https://doi.org/10.3390/su14105946>, (I.F. 3.889).
8. Kunal Gupta, and **Neelima Satyam** (2022), "Estimation of Arias Intensity and Peak Ground Acceleration (PGA) using Probabilistic seismic hazard assessment of Uttarakhand state (India)", *Arabian Journal of Geosciences*, Springer, 437, <https://doi.org/10.1007/s12517-022-09733-9>, (I.F. 1.827).
9. Minu Treesa Abraham, **Neelima Satyam**, Biswajeet Pradhan and Hongling Tian (2022), "Debris Flow Simulation 2D (DFS 2D): Numerical modeling of debris flows and calibration of friction parameters", *Journal of Rock Mechanics and Geotechnical Engineering*, Elsevier, <https://doi.org/10.1016/j.jrmge.2022.01.004>, (I.F. 5.915).
10. Meghna Sharma, **Neelima Satyam**, Krishna R. Reddy and Maria Chrysochoou (2022), "Multiple Heavy Metal Immobilization and Strength Improvement of Contaminated Soil using Bio-Mediated Calcite Precipitation Technique", *Environmental Science and Pollution Research*, Springer, <https://doi.org/10.1007/s11356-022-19551-x>, (I.F. 5.19).
11. Monika Dagliya, **Neelima Satyam** and Ankit Garg (2022), "Experimental Study on Optimization of Cementation Solution for Wind-Erosion Resistance using MICP Method", *Sustainability*, 14(3), 1770 <https://doi.org/10.3390/su14031770>, (I.F. 3.889).
12. Ambika Srivastav and **Neelima Satyam** and K. S. Rajan (2022), "Seismic vulnerability assessment of SFRS lined tunnel: A Himalayan case study", *Journal of Geological Society of India*, Springer, <https://doi.org/10.1007/s12594-022-1957-6>, (I.F. 1.459).
13. Monika Dagliya, **Neelima Satyam**, Meghna Sharma and Ankit Garg (2022), "Experimental Study on Mitigating Wind Erosion of Calcareous Desert Sand using Spray Method for MICP", *Journal of Rock Mechanics and Geotechnical Engineering*, Elsevier, 14(5), <https://doi.org/10.1016/j.jrmge.2021.12.008>, (I.F. 5.915).
14. Meghna Sharma, **Neelima Satyam** and Krishna R. Reddy (2022), "Liquefaction Resistance of Biotreated Sand Before and After Exposing to Weathering Conditions", *Indian Geotechnical Journal*, Springer, <https://doi.org/10.1007/s40098-021-00576-x> (I.F./C.S. 1.7).

15. Minu Treesa Abraham, **Neelima Satyam**, Prashita Jain, Biswajeet Pradhan and Abdullah M Alamri (2021), "Effect of spatial resolution and data splitting on landslide susceptibility mapping using different machine learning algorithms". *Geomatics, Natural Hazards and Risk*, Taylor & Francis, 12(1), 3381-3408 <https://doi.org/10.1080/19475705.2021.2011791> (I.F. 3.992).
16. Neharika G.N.S. and **Neelima Satyam** (2021), "Earthquake scenario selection of Tindharia landslide in India", *Journal of Engineering Geology*, Indian Society of Engineering Geology (ISEG), 46(1), 91-105.
17. Minu Treesa Abraham, **Neelima Satyam**, Biswajeet Pradhan, Samuele Segoni and Abdullah Alamri (2021), "Developing a prototype landslide early warning system for Darjeeling Himalayas using SIGMA model and real-time field monitoring", *Geosciences*, Springer, <https://doi.org/10.1007/s12303-021-0026-2>, (I.F. 1.439).
18. Nitin Tiwari and **Neelima Satyam** (2021), "Evaluation of Strength and Water Susceptibility Performance of Polypropylene Fiber Reinforced and Silica Fume Modified Hot Mix Asphalt", *Advances in Civil Engineering Materials*, ASTM, 10(1), 20210029, <https://doi.org/10.1520/ACEM20210029>, (I.F./C.S. 2.0).
19. Minu Treesa Abraham, **Neelima Satyam**, Revuri Lokesh, Biswajeet Pradhan and Abdullah Alamri (2021), "Factors Affecting Landslide Susceptibility Mapping: Assessing the Influence of Different Machine Learning Approaches, Sampling Strategies and Data Splitting", *Land* 2021, 10, 989, <https://doi.org/10.3390/land10090989>, (I.F. 3.905).
20. **Neelima Satyam**, Thomas Oommen, Sabatino Cuomo (2021), "Editorial-Special Issue: Landslides: Forecasting, Assessment and Mitigation", *Indian Geotechnical Journal*, Springer, 51, 625-626, <https://doi.org/10.1007/s40098-021-00565-0>, (I.F./C.S. 1.7).
21. Meghna Sharma and **Neelima Satyam** (2021), "Strength and Durability of Biocemented Sands: Wetting-Drying Cycles, Ageing Effects, and Liquefaction Resistance", *Geoderma*, Elsevier, 402, 115359, <https://doi.org/10.1016/j.geoderma.2021.115359>, (I.F. 7.422).
22. Nitin Tiwari, **Neelima Satyam** and Meghna Sharma (2021), "Micro-Mechanical Performance Evaluation of Expansive Soil Biotreated With Indigenous Bacteria Using MICP Method", *Scientific Reports*, Nature, 11, 10324, <https://doi.org/10.1038/s41598-021-89687-2>, (I.F. 4.996).
23. Abdoullah Namdar and **Neelima Satyam** (2021), "Characterization displacement of multilayered soils using smoothing seismic data, numerical analysis and probabilistically statistics analysis" *SN Applied Sciences*, Springer, 3, 621, <https://doi.org/10.1007/s42452-021-04611-7> (I.F./C.S. 1.0).
24. Meghna Sharma, **Neelima Satyam**, Nitin Tiwari, Shubham Sahu, and Krishna R. Reddy (2021), "Simplified biogeochemical numerical model to predict pore fluid chemistry and calcite precipitation during biocementation of soil" *Arabian Journal of Geosciences*, Springer, 14, 807, <https://doi.org/10.1007/s12517-021-07151-x>, (I.F. 1.827).
25. Nitin Tiwari, **Neelima Satyam** and Anand J Puppala (2021), "Strength and Durability Assessment of Expansive Soil Stabilized with Recycled Ash and Natural Fibers" *Transportation Geotechnics*, Elsevier, 29, 100556, <https://doi.org/10.1016/j.trgeo.2021.100556> (I.F. 4.938).
26. Nitin Tiwari and **Neelima Satyam** (2021), "The Coupling Effect of Pond-Ash and Polypropylene Fiber on Strength and durability attributes of Expansive Subgrades: An Integrated Experimental and Machine Learning Approach", *Journal of Rock Mechanics and Geotechnical Engineering*, Elsevier, 13(5), 1101-1112, <https://doi.org/10.1016/j.jrmge.2021.03.010>, (I.F. 5.915).
27. Ritu Raj Nath, Nani Das and **Neelima Satyam** (2021), "Impact of Main Boundary Thrust (MBT) on Landslide Susceptibility in Garhwal Himalaya: A Case Study" *Indian Geotechnical Journal*, Springer, <https://doi.org/10.1007/s40098-021-00522-x> (I.F./C.S. 1.7).
28. Nitin Tiwari, **Neelima Satyam** and Anand J Puppala (2021), "Effect of Synthetic Geotextile on Stabilization of Expansive Subgrades: An Experimental Study" *Journal of Materials in Civil Engineering*, ASCE, 33(10), 04021273 [https://doi.org/10.1061/\(ASCE\)MT.1943-5533.0003901](https://doi.org/10.1061/(ASCE)MT.1943-5533.0003901), (I.F. 3.651).
29. Minu Treesa Abraham, **Neelima Satyam** and Biswajeet Pradhan (2021), "Forecasting landslides using mobility functions: A case study from Idukki district, India" *Indian Geotechnical Journal*, Springer, 51, 684-693, <https://doi.org/10.1007/s40098-020-00490-8> (I.F./C.S. 1.7).

30. Meghna Sharma, **Neelima Satyam** and Krishna R. Reddy (2021), "Effect of Freeze-Thaw Cycles on Engineering Properties of Biocemented Sand under Different Treatment Conditions", *Engineering Geology*, Elsevier, 284, 106022, <https://doi.org/10.1016/j.enggeo.2021.106022>, (I.F. 6.902).
31. Minu Treesa Abraham, **Neelima Satyam**, Nakshatram Shreyas, Biswajeet Pradhan, Samuele Segoni, Khairul Nizam Abdul Maulud, Abdullah M. Alamri (2021), Forecasting landslides using SIGMA model: a case study from Idukki, India. *Geomatics, Natural Hazards and Risk*, Taylor & Francis, 12(1), 540-559, <https://doi.org/10.1080/19475705.2021.1884610>, (I.F. 3.922).
32. Meghna Sharma, **Neelima Satyam** and Krishna R. Reddy (2021), "Hybrid Bacteria Mediated Cemented Sand: Microcharacterization, Permeability, Strength, Shear Wave Velocity, Stress-Strain, and Durability", *International Journal of Damage Mechanics*, SAGE Publication, 30(4), 618-645, <https://doi.org/10.1177/1056789521991196>, (I.F. 3.988).
33. Minu Treesa Abraham, **Neelima Satyam** , Ascanio Rosi, Biswajeet Pradhan and Samuele Segoni (2021), "Usage of antecedent soil moisture for improving the performance of rainfall thresholds for landslide early warning" *Catena*, Elsevier, 200, 105147, <https://doi.org/10.1016/j.catena.2021.105147>, (I.F. 6.367).
34. **Neelima Satyam** and Putti Swathi Priyadarsini (2021), "Seismic Site characterization and dynamic analysis of pile supported Wharf structure", *Indian Geotechnical Journal*, Springer, 51(1), 211-224, <https://doi.org/10.1007/s40098-020-00482-8> (I.F./C.S. 1.7).
35. Meghna Sharma, **Neelima Satyam** and Krishna R. Reddy (2021), "Rock-like Behavior of Biocemented Sand Treated under Non-Sterile Environment and Various Treatment Conditions", *Journal of Rock Mechanics and Geotechnical Engineering*, Elsevier, 13(3), 705-716 <https://doi.org/10.1016/j.jrmge.2020.11.006>, (I.F. 5.915).
36. Meghna Sharma, **Neelima Satyam** and Krishna R. Reddy (2021), "Comparison of Improved Shear Strength of Biotreated Sand using Different Ureolytic Strains and Sterile Conditions", *Soil Use and Management*, Wiley. <https://doi.org/10.1111/sum.12690>, (I.F. 3.672). (Top Cited Article 2020-2021)
37. Binh Thai P, Abolfazl J., T. Nguyen-Thoi, T.V. Phong, H. D. Nguyen, **Neelima Satyam** , Md Masroor, S. Rehman, H. Sajjad, M. Sahana, H. V. Le & I. Prakash (2020), "Ensemble machine learning models based on Reduced Error Pruning Tree for prediction of rainfall-induced landslides", *International Journal of Digital Earth*, Taylor & Francis, 14(5). 575-596, DOI:10.1080/17538947.2020.1860145, (I.F. 4.606).
38. Minu Treesa Abraham, **Neelima Satyam**, Maria Alexandra Bulzinetti, Biswajeet Pradhan, Binh Thai Pham and Samuele Segoni (2020) "Using Field-Based Monitoring to Enhance the Performance of Rainfall Thresholds for Landslide Warning", *Water*, 12(12), 3453; <https://doi.org/10.3390/w12123453>, (I.F. 3.53).
39. Meheub S, Binh Thai P, Manas S, Romulus C, Do Xuan T, Rabin C, **Neelima Satyam** , Huu Duy N, Tran Van P, Hiep Van L, Subodh C, G Areendran, Kashif I and Indra P.(2020), Rainfall Induced Landslide Susceptibility Mapping Using Novel Hybrid Soft Computing Methods Based on Multi-layer Perceptron Neural Network Classifier, *Geocarto International*, Taylor and Francis, <https://doi.org/10.1080/10106049.2020.1837262>, (I.F. 3.45).
40. Minu Treesa Abraham, **Neelima Satyam** , Sai Kumar Peddholla Reddy, Biswajeet Pradhan (2020) "Runout modelling and calibration of friction parameters of Kurichermala debris flow, India", *Landslides*, Springer, 18, 737-754, <https://doi.org/10.1007/s10346-020-01540-1>, (I.F. 6.153).
41. Meghna Sharma, **Neelima Satyam** , and Krishna R. Reddy (2020), "State-of-the-Art Review of Emerging and Biogeotechnical Methods for Liquefaction Mitigation in Sands", *Journal of Hazardous, Toxic, and Radioactive Waste*, ASCE, 25(1), 03120001, [https://doi.org/10.1061/\(ASCE\)HZ.2153-5515.0000557](https://doi.org/10.1061/(ASCE)HZ.2153-5515.0000557), (I.F./C.S. 2.5).
42. Nitin Tiwari, **Neelima Satyam** and Kundan Singh (2020), "Effect of Curing on Micro-Physical Performance of Polypropylene Fiber Reinforced and Silica Fume stabilized Expansive Soil Under Freezing Thawing Cycles", *Scientific Reports*, Nature, 10, 7624, <https://doi.org/10.1038/s41598-020-64658-1>, (I.F. 4.996).

43. Minu Treesa Abraham, **Neelima Satyam** , Biswajeet Pradhan, and Abdullah M. Alamri (2020), "IoT-Based Geotechnical Monitoring of Unstable Slopes for Landslide Early Warning in the Darjeeling Himalayas", *Sensors*, MDPI 20(9) 2611, <https://doi.org/10.3390/s20092611>, (I.F. 3.847) (Listed in [Highly Cited Papers in the Field of IoT](#)).
44. Meghna Sharma, **Neelima Satyam** and Krishna R. Reddy (2020), "Strength Enhancement and Lead Immobilization of Sand using Consortia of Bacteria and Blue-Green Algae", *Journal of Hazardous, Toxic, and Radioactive Waste*, ASCE, 24(4), [https://doi.org/10.1061/\(ASCE\)HZ.2153-5515.0000548](https://doi.org/10.1061/(ASCE)HZ.2153-5515.0000548), (I.F./C.S. 2.5).
45. Putti Swathi Priyadarsini and **Neelima Satyam** (2020), "Evaluation of site effects using HVSR microtremor measurements in Vishakhapatnam (India)", *Earth Systems and Environment*, Springer, 4(2), <https://doi.org/10.1007/s41748-020-00158-6>, (I.F./C.S. 3.7).
46. Minu Treesa Abraham, **Neelima Satyam** , Sai Kushal, Ascanio Rosi, Biswajeet Pradhan and Samuele Segoni (2020), "Rainfall Threshold Estimation and Landslide Forecasting for Kalimpong, India Using SIGMA Model". *Water* 12(4), 1195. <https://doi.org/10.3390/w12041195>, (I.F. 3.53).
47. Nitin Tiwari, **Neelima Satyam** and Jasmin Patva (2020), "Engineering Characteristics and Performance of Polypropylene Fiber and Silica Fume Treated Expansive Soil Subgrade", *International Journal of Geosynthetics and Ground Engineering*, Springer, 6, 18, <https://doi.org/10.1007/s40891-020-00199-x>, (I.F./C.S. 2.1) (Listed in [Editor's Choice Papers of 2020](#)).
48. Minu Treesa Abraham , **Neelima Satyam** , Ascanio Rosi Biswajeet Pradhan and Samuele Segoni (2020) " The Selection of Rain Gauges and Rainfall Parameters in Estimating Intensity-Duration Thresholds for Landslide Occurrence: Case Study from Wayanad (India) ", *Water*, 2020, 12, 1000, <https://doi.org/doi:10.3390/w12041000>, (I.F. 3.103)(Listed in [Editor's Choice Papers](#)).
49. Nitin Tiwari, **Neelima Satyam** and Sanjay Kumar Shukla (2020) "An experimental study on micro-structural and geotechnical characteristics of expansive clay mixed with EPS granules", *Soils and Foundations*, Elsevier, 60(3), 705-715, <https://doi.org/10.1016/j.sandf.2020.03.012>, (I.F. 2.436) (Listed in [Most Cited Articles Since 2018](#)).
50. Minu Treesa Abraham, **Neelima Satyam** , Biswajeet Pradhan and Abdullah M. Alamri (2020) "Forecasting of Landslides Using Rainfall Severity and Soil Wetness: A Probabilistic Approach for Darjeeling Himalayas", *Water*, 12(3), 804, <https://doi.org/10.3390/w12030804>, (I.F. 3.103).
51. Ambika Srivastav and **Neelima Satyam** (2020), "Understanding the impact of the earthquake on circular tunnels in different rock mass: A numerical approach", *Innovative Infrastructure Solutions*, Springer, 5(1), 1-9, <https://doi.org/10.1007/s41062-020-0278-0>, (I.F./C.S. 2.0).
52. Abhirup Dikshit, **Neelima Satyam** , Biswajeet Pradhan and Sai Kushal (2020), "Estimating rainfall threshold and temporal probability for landslide occurrences in Darjeeling Himalayas", *Geosciences*, Springer, <https://doi.org/10.1007/s12303-020-0001>, (I.F. 2.076).
53. Nitin Tiwari and **Neelima Satyam** (2019), "An Experimental Study on the Behavior of Lime and Silica Fume Treated Coir Geotextile Reinforced Expansive Soil Subgrade", *Engineering Science and Technology, an International Journal*, Elsevier, 23(5), 1214-1222, <https://doi.org/10.1016/j.jestch.2019.12.006>, (I.F. 4.360).
54. Meghna Sharma, **Neelima Satyam** and Krishna R. Reddy (2019), Investigation of Various Gram-Positive Bacteria for MICP in Narmada Sand, India, *International Journal of Geotechnical Engineering*, Taylor & Francis, 15(2), 220-234, <https://doi.org/10.1080/19386362.2019.1691322> , (I.F./C.S. 3.2).
55. Abhirup Dikshit, **Neelima Satyam** and Biswajeet Pradhan (2019), Estimation of rainfall induced landslides using TRIGRS Model, *Earth System and Environment*, Springer, 3, 575-584, <https://doi.org/10.1007/s41748-019-00125-w>, (I.F./C.S. 2.0).
56. Minu Treesa Abraham, Deekshith Pothuraju and **Neelima Satyam** (2019) Rainfall Thresholds for Prediction of Landslides in Idukki, India: An Empirical Approach, *Water*, 11(10), 2113, <https://doi.org/10.3390/w11102113>, (I.F. 3.103).

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3. Falak Zahoor, K. Seshagiri Rao, Fuzail Showkat Wani, Syed Mehran Andrabi, and **Neelima Satyam** (2021), Local Site Effects using HVSR Analysis along Srinagar Metro Rail Alignment, Jammu and Kashmir, Indian Geotechnical Conference 2021, TH-06-031

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5. Nitin Tiwari, **Neelima Satyam** and Jasmin Patva (2019), Experimental Study on the Swelling Behavior of Expansive Soil Reinforced with Coir Geotextile, Indian Geotechnical Conference 2019, TH03-80
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27. Vijaya lakshmi and **Neelima Satyam** (2011)" Numerical Modeling of Rock Slopes In Siwalik Hills Near Manali Region: A Case Study" Indian Geotechnical Conference, 15-17 December 2011, Paper No: N-006. (1)
28. Saranya and **Neelima Satyam** (2011) "Soil Structure Interaction of High Rise Structure Supported by Pile Foundation " Indian geotechnical Conference, 15-17 December 2011, F-005
29. Akhila Manne, Shipla chowdary and **Neelima Satyam** (2011)"Estimation of Site Effects for Vijayawada city" " Indian Geotechnical Conference, 15-17 December 2011
30. Akhila Manne and **Neelima Satyam** (2011)"Geotechnical characterization for Vijayawada Urban using GIS" 3rd Indian Young Geotechnical Engineers Conference, New Delhi, India, PP 191-196
31. Chenna Rajaram, B Narender, **Neelima Satyam** and Ramancharla Pradeep K (2010) "Preliminary Seismic Hazard Map of Peninsular India" 14th Symposium on Earthquake Engineering and Golden Jubilee celebrations, IIT Roorkee, 17-19th Dec 2010
32. Mohammed Younus Ahmed and **Neelima Satyam** (2009) "Numerical analysis of a Pile Subjected to Lateral Loads" Indian Geotechnical Conference, Guntur, Paper No: 32
33. **Neelima Satyam** and Prof. M.R.Madhav (2008) "A Case study on the contaminated soils in the Industrial areas of Hyderabad City" Proceedings of the Indian Geotechnical Conference, IISC Bangalore
34. **Neelima Satyam** and Gajendra V(2008) "Recycled Aggregates and its Effect on Concrete" Proceedings of the Indian Geotechnical Conference, 17-19th December 2008, IISC Bangalore
35. **Neelima Satyam** and Rao K S (2007) "Assessment of Liquefaction Potential for Delhi Region using shear wave velocities" Indian Young Geotechnical Engineers Conference, March 2-3, 2007, pp 94-98.
36. **Neelima Satyam** and Rao K S (2006) "Seismic Microzonation of Delhi NCR", Proceedings of National Conference on Earthquake Disaster Technology and Management, MNNIT Allahabad, 11-12 February. Page No. 149-165. (6)
37. Rao K S, **Neelima Satyam** , W.K.Mohanty and G.Suresh (2005) "Microtremor Studies in Delhi Region", Proceedings of Indian Geotechnical Conference, 17-19 December 2005, Nirma Institute of Technology, Ahmedabad, Vol I, pp 339-344.
38. Rao K S and **Neelima Satyam** (2005) "Assessment of Shear Wave Velocities in Delhi Using MASW Method", Proceedings of Indian Geotechnical Conference, 17-19 December 2005, Nirma Institute of Technology, Ahmedabad, Vol I, pp 213-234—Awarded Best Paper for "Innovations in field Exploration and Insitu Testing"
39. Rao K S and **Neelima Satyam** (2005) "Seismic Microzonation Studies for Delhi Region", Symposium on Seismic Hazard and Microzonation, Sep 24-25th September 2005, IIT Roorkee, Vol I, pp 213-234 (Referred by Sitaram and Anbhazhagan(2008) Seismic Microzonation: Principles, Practices and Experiments, Electronic Journal of Geotechnical Engineering, Bouquet08, pp1-61(9).
40. Rao K S and **Neelima Satyam** (2005), "Seismic hazard Assessment of Delhi with respect to Liquefaction Potential", Proceedings of National Conference on Geotechnics in Environmental Protection, MNIT Allahabad, April 2005, pp X-9-X-12.
41. Rao K S and **Neelima Satyam** (2004), "Liquefaction Potential Mapping for Delhi", Proceedings of Indian Geotechnical Conference, NIT Warangal, Vol I, pp 219-222. (2)
42. Rao K S, Gupta K K and **Neelima Satyam** (2002), "Effect of Structural Planes on Rock Foundations", Proceedings of Indian Geotechnical Conference, MNIT Allahabad, Vol I, pp 427-432.

Editorials/newsletters/in book/edited book/chapters in book

1. Pala Gireesh Kumar, Kolluru V. L. Subramaniam, S. Moses Santhakumar, and **Neelima Satyam** (eds) "Recent Advances in Civil Engineering", Proceedings of the 2nd International Conference on Sustainable Construction Technologies and Advancements in Civil Engineering (ScTACE 2021), Lecture Notes in Civil Engineering, Volume 233, Springer Nature Singapore.

2. Ambika Srivastav and **Neelima Satyam** (2023). Probabilistic Seismic Hazard Assessment for Hydropower Project Sites in the Himalayan Region. In: Sitharam, T.G., Kolathayar, S., Jakka, R.S., Matsagar, V. (eds) Theory and Practice in Earthquake Engineering and Technology. Springer Tracts in Civil Engineering . Springer, Singapore. https://doi.org/10.1007/978-981-19-2324-1_11
3. **Neelima Satyam** and Swathi P. (2023). Development of Liquefaction Susceptibility Maps for Vishakhapatnam (India). In: Sitharam, T.G., Kolathayar, S., Jakka, R.S., Matsagar, V. (eds) Theory and Practice in Earthquake Engineering and Technology. Springer Tracts in Civil Engineering . Springer, Singapore. https://doi.org/10.1007/978-981-19-2324-1_6
4. C. N. V. Satyanarayana Reddy, A. Murali Krishna and **Neelima Satyam** (eds) "Dynamics of Soil and Modelling of Geotechnical Problems" Proceedings of Indian Geotechnical Conference 2020 Volume 5, Lecture Notes in Civil Engineering, Volume 186, Springer Nature Singapore.
5. **Neelima Satyam** (2022) "Determination of Thresholds for rainfall-Induced Landslides in Kalimpong", Landslides: Causes, Mitigation, Case studies (Section 9). Beena K.S, Minimol Korulla and Reji Zachariah (eds), Directorate of Public Relations and Publications for Division of Civil Engineering, School of Engineering, CUSAT.
6. **Neelima Satyam** and Minu Treesa Abraham (2022) Forecasting Landslides for Disaster Risk Reduction: Process-Based Approaches and Real-Time Field Monitoring. Springer Tracts in Civil Engineering, Springer, Singapore, Kolathayar S., Pal I., Chian S.C., Mondal A. (eds) Civil Engineering for Disaster Risk Reduction (Chapter 11), https://doi.org/10.1007/978-981-16-5312-4_11.
7. Nitin Tiwari and **Neelima Satyam** (2021) Performance Evaluation of Reinforced Expansive Soil Subgrade with Polypropylene Fiber and Geogrid, Lecture Notes in Civil Engineering, Vol. 165, Erol Tutumluer et al. (Eds): Advances in Transportation Geotechnics IV (Chapter 45), https://doi.org/10.1007/978-3-030-77234-5_45.
8. Nitin Tiwari, **Neelima Satyam** and Jasmin Patva (2021) Experimental Study on the Swelling Behavior of Expansive Soil Reinforced with Coir Geotextile, Lecture Notes in Civil Engineering, Vol. 138, Satyajit Patel et al. (Eds): Proceedings of the Indian Geotechnical Conference 2019, 978-981-33-6563-6, 503511_1_En, (Chapter 11), https://doi.org/10.1007/978-981-33-6564-3_11.
9. Dikshit A. and **Neelima Satyam** (2021) Probabilistic Assessment of Paglajhora Landslide Using SLOPE/W. Geohazards. Lecture Notes in Civil Engineering, 86, 129-136, Springer, https://doi.org/10.1007/978-981-15-6233-4_9
10. Swathi P. and **Neelima Satyam** (2021) Design of Pile Foundation System for Wharf Structure in Liquefiable Soils. Geohazards, Lecture Notes in Civil Engineering, Springer, 86, 429-439, https://doi.org/10.1007/978-981-15-6233-4_30
11. **Neelima Satyam** and Minu Treesa Abraham (2020) "Development of Landslide Early Warning Using Rainfall Thresholds and Field Monitoring: A Case Study from Kalimpong." Lecture Notes in Civil Engineering, Vol. 123, Ankit Garg et al. (Eds): Proceedings of the 1st Indo-China Research Series in Geotechnical and Geoenvironmental Engineering, 978-981-33-4323-8, 502650_1_En, (Chapter 11)(2020), https://doi.org/10.1007/978-981-33-4324-5_11.
12. Book Chapter on "Numerical modeling of biocemented soil behavior", Samui et al. (Eds.), Modeling in Geotechnical Engineering, Elsevier, PP 102-116, ISBN 978-0-12-821205-9 (2020).
13. Book Chapter on "Landslide prediction and field monitoring for Darjeeling Himalayas: A case study from Kalimpong", Samui et al. (Eds.), Basics of Computational Geophysics, Elsevier, PP 165-188, <https://doi.org/10.1016/B978-0-12-820513-6.00010-2> (2020).
14. Book Chapter on "Monitoring of unstable slopes with low cost sensor network in Chibo, Kalimpong, Darjeeling Himalayas, India, N.P. Lopez-Acosta et al. (Eds.), Geotechnical Engineering in the XXI Century: Lessons learned and future challenges, IOS Press, ISBN 978-1-64368-031-6, pp 1710-1715. (<https://doi.org/10.3233/STAL190225>)(2020).
15. Book Chapter on "Effect of Soil-Structure Interaction on Free Vibration Characteristics of Antenna Structure". In: El-Naggar H., El-Zahaby K., Shehata H. (eds) Innovative Solutions for Soil Structure Interaction. GeoMEast 2019. Sustainable Civil Infrastructures. Springer, Cham, pp 135-144. (https://doi.org/10.1007/978-3-030-34252-4_11).

16. Book Chapter on “Determination of Anelastic Attenuation Factor (Q) and Decay Factor (K) from Ground Motion Records of the Intra-plate Region” Geotechnics for Natural and Engineered Sustainable Technologies, Chapter no:21, Springer Nature Singapore Pte Ltd, PP 345-369.
17. Book Chapter on “Review on Liquefaction Hazard Assessment” Advances in Geotechnical Earthquake Engineering - Soil Liquefaction and Seismic Safety of Dams and Monuments, ISBN 978-953-51-0025-6, Edited by: Abbas Moustafa, Intech Publishers, Chapter No:3.
(<http://www.intechopen.com/articles/show/title/liquefaction-hazard-assessment>)
18. Book Chapter on " Liquefaction modelling of granular soils using Discrete element method" in Advanced Computational Techniques for Simulation based Engineering, IGI Global
(<http://www.igi-global.com/book/handbook-research-advanced-computational-techniques/132777>), Chapter No:15.
19. Book Chapter on “Geophysical Methods for Seismic Site Characterization” in Earthquake Research and Analysis / Book 2, ISBN 979-953-307-273-8, Intech Publishers, Chapter No:12. Rao and Neelima Satyam D (2011) “11th March 2011 Tohoku Tsunami Disaster in Japan” Indian Geotechnical Society News Letter, April- June 2011, PP 3-7.
20. Invited paper entitled “MultiChannel Analysis of Surface Wave (MASW) Testing for Site Characterization of Delhi Region”, In Edited book entitled ‘Earthquake Hazards and Mitigation’ edited by R. Ayothiraman and Hemanta Hazarika, International Publishing house Pvt. Ltd., (ISBN 978-81-89866-77-8), New Delhi, India, March 2007, pp. 432-439, C 2.
21. Invited paper entitled “Estimation of Ground Motion Parameters for Muzaffarabad Earthquake, Pakistan on 8th October 2005” Edited by Hanlong Liu, An Deng and Jian Chu, (ISBN:978-3-54079845-3), Springer Berlin Heidelberg Newyork, 2008, PP 427-433.
22. Book Chapter on "The Effect of the L/D Ratio of Pile Group Using the Equivalent Pier Method Including Interaction: in Advances in Analysis and Design of Deep Foundations, PP 157-170, 2018,ISBN 978-3-319-61642-1

PATENTS

1. Patents Granted:

1. Minu Treesa Abraham, Neelima Satyam and Biswajeet Pradhan, “Modelling Calibration of Friction Parameters for Debris Flow” Patent No. 2021106606 by the Commissioner of Patents on 10th November 2021, as an Australian Innovation Patent
2. Nitin Tiwari And Neelima Satyam “Process for Culturing Indigenous Bacteria For Treating Clays With Varying Plasticity To Improve Engineering Behavior” Patent application No: 2021105096

3. Patents Published:

1. Neelima Satyam and Meghna Sharma, “BioChem-Reactor for Biocementation and Method Thereof” Patent application No. 202021051658 (Filling date: 21/11/2020)
2. Neelima Satyam and Nitin Tiwari, “Ground Improvement Technique using Indigenous Bacteria for Biocementation of Expansive Soil Subgrades” Patent application No. 202021057003 (Filling date: 29/12/2020)

SPONSORED PROJECTS

1. Completed as PI:

1. A Project titled “Geotechnical Site Characterization And Ground Response Studies For Vijayawada City “applied to Ministry of Earth Sciences, GoI (**MoES/P.O.(Seismo)/1(73)/2009**)
2. A Project titled “Seismic Site Characterization of Vijayawada City Using Microtremor Testing” is approved by Department of Science & Technology, Govt of India under Fast Track Scheme (**No.SR/FTP/ES-77/2009**)
3. A Project titled “Liquefaction Modelling And Estimation Of Dynamic Properties Of Granular Materials Using Discrete Element Approach” is approved by Board of Research in Nuclear Sciences, Department of Atomic Energy, (**No.2011/36/45-BRNS/1973**)
4. A project titled “Development of Geotechnical Engineering Virtual Lab” is approved by MHRD.
5. A Project titled “Numerical Modeling To Study Dynamic Soil Structure Interaction Effects On Asymmetrical Tall Buildings” to AICTE under Career award for young teachers (CAYT) (**1-51/RIFD/CA/2/2011-2012**)
6. Design of slopes for Railway embankments, JJ Associates, Vizag
7. A project titled “Development of Soil Mechanics course” under Pedagogy Project, MHRD
8. A Project titled “Development of effective Wireless Sensor Network system for water quality and quantity monitoring (AquaSense)” to Information Technology and Research Academy (ITRA), GoI (**ITRA/15(70)/water/Aquasense/01**)
9. A Project titled "Numerical Analysis of Monopile for Offshore wind turbines considering Dynamic Soil Structure Interaction" NIOT Chennai (**NIOT/F&A/OS/2015**)

2. Ongoing as PI:

1. A Project titled “Geospatial numerical modelling of debris flow for quantitative landslide risk assessment considering the entrainment” Indian Space Research Organization (No.DS-2B-13012(2)/42/2018)
2. A Project titled “Development of Landslide Early Warning System and Real Time Monitoring, Uttarakhand , NRDMS, DST (NRDMS/LS/34229/2020)
3. A Project titled “Performance analysis of recycled plastic waste for bitumen roads, GOI MP“ (S18/EST/MPRRA/2019)
4. A Project titled “Sustainable and Innovative construction technique for rural roads on BC soil using local material and industrial waste“, GOI MP“ (S18/EST/MPRRA/2019)
5. A Project titled "Preventing Damage from Earthquakes: Emerging Innovative Techniques for Liquefaction Mitigation of Soils" VAJRA Scheme, DST (VJR/2018/000126)

INDUSTRIAL EXPERIENCE AND CONSULTANCY

1. At IIT Hyderabad

1. Geotechnical consultancy service for a Commercial Building in Madhapur, White Lotus Inc, Dubai 2017
2. Slope Stability analysis for New BG line between Devarakadra and Krishna, JJ Soil Pvt Ltd, 2016
3. Slope Stability analysis for New BG line between Jagityal – Nizamabad, JJ Soil Pvt Ltd, 2014
4. Design of foundation for Khargone LIS pump station, MEIL Ltd, 2014
5. GPR survey for determination of foundation depth and sub strata for 8 Gopurams and Anand Nilayam, TTD, 2013
6. Design of Hydropower cavern at Dikchu Hydro power project, Haridwar Infrastructure Pvt Ltd, 2012
7. Design of sheet piles at Auto Nagar, Guntur, Vijay Nirman Pvt Ltd, 2012
8. Soil testing for Highway project, Feedback Ventures, Hyderabad, 2008

2. After Joining IIT Indore

1. Design Review of Pipe Bridge for Railway Crossings, L & T Power, March 2018. (2 Lakhs)
2. Proof checking of Navneera Dam foundation drawings, Dilip Buildcon, June 2019 (16 Lakhs)
3. Detailed assessment of suitability and stability of foundations on shale formation, Dilip Buildcon, July 2019 (8 Lakhs)
4. Review on causes of failure of RE wall damage at Data colony, Bhopal, Feedback Infra, August 2019 (2 Lakhs)
5. Stability analysis of Bhavsa Medium Irrigation Tank Project, Water resources division, Burhanpur (4 Lakhs) Sep 2019
6. Stability of Ash Dykes (2 at Sarni, 2 at Khadwa, 1 at Brisingshpur and 1 at Annupur) MP Power generating co Ltd (24 Lakhs) Nov 2019
7. Safety and functionality of Navneera Barrage in Peak floods Dilip Buildcon, Nov 2019 (6.36 Lakhs)
8. Stability analysis of Karam Medium Irrigation Eathen dam, Water resources division, Dhar (4 Lakhs) Nov 2019
9. TPQA of 15 KV schools in Rajasthan, Jharkhand, MP, Punjab, Telangana, Andhra, Gujarat, NPCC India, (75 Lakhs) 2020
10. TPQA of AIIMS Raipur, CPWD Raipur (70 Lakhs) 2020
11. Geotechnical consultancy for Banswara Nuclear power plant, Geomaritime services, Mumbai (15.8 Lakhs) 2020
12. Forensic study on Seogni bridge collapse, MPRRDA (7 Lakhs) 2020
13. Proof checking of 16 KV schools in Rajasthan, Jharkhand, Gujarat, Orissa, Telangana and Andhra Pradesh (85 Lakhs)
14. Consultancy services for compartment-B of 373-hectare ash pond, 50 MVAR SarniAshta Line Reactor foundation & Satpura dam inspection-gallery & its spillway at STPS Sarni (9 Lakhs)
15. Stability analysis of 3 buildings in indore, mansaur and ratlam (9 Lakhs)
16. Vetting of retaining wall, pune
17. Stability analysis of ESI TB hospital in indore
18. Curtain grouting design methodology at TP1 dongalia, Khandwa
19. Vetting of GraviLoft, Maharashtra Samruddhi Mahamarg
20. Proof checking of bridges under PMGSY

21. Vetting of solar ground mount structure, Leh
22. Vetting of substructure design at Kanpur
23. Vetting of auditorium
24. Design and drawing vetting of RCC retaining wall, Sehore
25. Site visit for retaining wall at Nallah requirement at KV Patan
26. Reviewing and vetting of NDT report
27. Vetting of 0.4MW awadi
28. Stability assessment of jnv
29. Site visit & reporting the feasibility of strengthening the town hall building
30. Verification of foot over bridge of Lagarawan under divisional Engineer North Jabalpur
31. Verification of foot over bridge of Lagarawan station at Jabalpur
32. Lab testing of soil sample using Institute facility
33. Vetting of ROB 72B and 72C; CASAD Consultant Pvt. Ltd.
34. Arrah - Pararia - Mohania Project: Third Party Independent Design Audit; ASC Infratech
35. Structural audit of Jawahar Navodaya Vidyalaya at Baloda Bazar, Chhattisgarh; NPCC Raipur
36. Structural audit of KV Longding, Arunachal Pradesh; Ganpati Construction Company
37. Structural audit of KV Kurud and Kawardha, Chhattisgarh; Goel and Associates
38. Structural audit of KV Bijapur and Sukma, Chhattisgarh; Om Associates
39. Stability assessment of ash dike at Anuppur, Madhya Pradesh; MMPGCL
40. Stability assessment of ash dike at Birsinghpur, Madhya Pradesh; MMPGCL
41. Water oozing problem at NTPC Khargone, Madhya Pradesh; NTPC
42. Structural Assessment of Maharjwada building, Ujjain, Madhya Pradesh; Ujjain Smart City Ltd.
43. Vetting of Flag post foundation; Ganpati Electricals
- 44.

The Industry experience helped me to teach the concepts of soil mechanics and foundation engineering courses taking real life problems as examples and also preparing the students for the civil engineering practice. Sharing industry experience allows to demonstrate the relevance of specific topics covered in courses

RESEARCH GUIDANCE

- **Ph.D: 7 awarded, and 3 on going**
- **MS: 3 awarded**
- **M. Tech: 26 awarded**

1. PhD Guidance

| S. No. | Name of PhD student | Institute | Title of Thesis | Year (Joining) | Role | Present status (ongoing/ submitted/ graduated) |
|--------|---------------------|---------------|---|----------------|------------|--|
| 1 | Pallavi Badry | IIT Hyderabad | Seismic Soil Structure Interaction Analysis of Piled- Raft Supported Asymmetrical Buildings | 2012 | Supervisor | Graduated |
| 2 | Nitin Tiwari | IIT Indore | Performance Evaluation and Deformation Behaviour of Reinforced Paved Structure | 2018 | Supervisor | Graduated |

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|----|--------------------|---------------|--|------|---------------|-----------|
| 3 | Meghna Sharma | IIT Indore | Effects of Bacterial and Treatment Combinations on Biocementation of Sand: Strength Enhancement, Liquefaction Resistance, Durability, and Contamination Immobilization | 2018 | Supervisor | Graduated |
| 4 | Swati Priyadarsini | IIT Hyderabad | Seismic Hazard assessment for Vishakapatnam and allied site specific studies | 2015 | Supervisor | Graduated |
| 5 | Ambika Srivastav | IIT Hyderabad | Seismic response of rock tunnels in mixed Himalayan geology | 2015 | Supervisor | Graduated |
| 6 | Neharika Rao | IIT Hyderabad | Seismic hazard and seismic slope stability assessment of Sikkim-Drajeeling, India | 2016 | Supervisor | Graduated |
| 7 | Minu Abraham | IIT Indore | Rainfall induced landslides in the Western Ghats, India: Spatio-temporal forecasting and debris flow modeling | 2020 | Supervisor | Graduated |
| 8 | Falak Zahoor | IIT Delhi | Seismic Hazard Analysis and Microzonation of Jammu and Kashmir. | 2016 | Co-Supervisor | Ongoing |
| 9 | Monika Dagliya | IIT Indore | Mitigation of Wind erosion using sustainable nature based solutions | 2021 | Supervisor | Ongoing |
| 10 | Kunal Gupta | IIT Indore | Combined co-seismic and rainfall induced landslide hazard assessment of Uttarakhand state | 2021 | Supervisor | Ongoing |

2. M. Tech Guidance

| S. No. | Title of thesis | Name of student | Year of Award |
|--------|--|-------------------------|---------------|
| 1 | Design of metro rail station with spine and wing concept | Ashruf Mohammad | 2016 |
| 2 | Spectral seismic analysis of structure using SAP2000 | N Vijay Kumar | 2016 |
| 3 | Soil structure interaction of bated piles | KRISHNA M V RATNAM M | 2016 |
| 4 | Analysis of Monopile of wind turbines in Offshore Structures | N Mohan Srinivas | 2015 |
| 5 | Numerical Modeling of underground tunnel using displacement approach | Syed Aamer Hussain | 2014 |
| 6 | Integral abutment bridges with SSI | P Purthvi Chowdary | 2014 |
| 7 | Analysis and Design of underground structures | Divyavani B | 2014 |
| 8 | Seismic reliability of lifeline structures in Vijayawada | Sistla Keerthi Kasyap | 2014 |

| | | | |
|----|--|-----------------------|------|
| 9 | Seismic Reliability of Life-line structures in Gangtok | Chaitanya E | 2014 |
| 10 | Design of stone columns at Noida, Delhi | BVS Vasudha | 2013 |
| 11 | Modeling of Granular Flow and Its Impact on Retaining Wall | A Kartik | 2013 |
| 12 | Numerical Modeling of Granular Media | Abhineet Agarwal | 2013 |
| 13 | Modeling of Water Flow in Pipeline Networks | Harrshit Varma | 2013 |
| 14 | Modeling of Real Time Water Flow in Pipelines | Valeti Goutham | 2013 |
| 15 | Tunnel in soft ground | Madhu Kotika | 2013 |
| 16 | SSI Analysis of Structures Supported on Piles | Shilpa Choudhary | 2012 |
| 17 | Dynamic Response Analysis of Nuclear Building on Thick Soft Sedimentary Deposits | O Divya | 2011 |
| 18 | Site Characterization Using Digital Image Processing | P Saranya | 2011 |
| 19 | A Study on Numerical Modelling of Tunnelling in Siwaliks | Rentala Vijayalakshmi | 2011 |
| 20 | Estimation of Fundamental Period of alluvial soil deposits | K Rajesh Chandra | 2011 |
| 21 | Numerical Modelling of a Pile Foundation in Liquefiable Strata | Lalit Kumar | 2010 |
| 22 | Soil Structure Interaction Analysis of High Rise Buildings | V V Varun Naidu | 2010 |
| 23 | Numerical Analysis of Landslide Due to Seismic Activity | Sai Charan VVKS | 2010 |
| 24 | Estimation of Liquefaction for Vijayawada Region | B. Uday Kumar | 2009 |
| 25 | Dynamic Analysis of Nuclear Reactor Building Considering SSI | M. Prasanna Kumar | 2009 |
| 26 | Design a Seismic Analysis of Retaining Wall | Shaik Syed | 2009 |

All the works carried out by my students have **practical relevance**. It's a huge learning experience for me as I guide the Ph.D. students. I don't consider myself just a facilitator, but am really involved in their work.

KEYNOTE/ INVITED LECTURES

- Gave a talk as a resource person in the National Seminar on Mountain Hazards: Landslides, Snow Avalanche and GLOF Risk Reduction & Mitigation on 1st September 2022
- An Expert lecture on: Geo-Environment Engg., 30th June, 2022, at National Institute of Technology Raipur, and Shri Shankaracharya Institute of Professional Management and Technology (SSIPMT), Raipur
- An Expert lecture on: Geotechnical investigation for dynamic properties of soil, 24th June, 2022 (Friday), at RRCAT Convention Centre, Indore
- An Invited lecture on : Advances in Deep Foundation, 10 June 2022 at Marathwada Institute of Technology, Aurangabad, Maharashtra.
- An Expert lecture on: Bio-immobilization of Heavy/Toxic Metal in Sand using MICP, 7 April 2022 at NIT-Hamirpur, Himachal Pradesh.
- An Invited lecture on : Sustainable Ground Improvement for Liquefaction Mitigation, 14 March 2022 at Chamelidevi Group of Institutions, Indore, Madhya Pradesh
- An Invited lecture on : Nature-based Ground Improvement Methods, 10 March 2022 at C.V. Raman Global University, Bhubaneswar, Odisha
- An Invited speaker in One day Seminar (Online) on Women Empowerment in Civil Engineering: Inspiring Change, 8 March 2022
- An Invited lecture in One Week STTP on "Importance of Soil Investigations and Non-Destructive Techniques", 8 March 2022 Jointly Organised by IGS Aurangabad Chapter in association with Civil Engineering Department, M.I.T., Aurangabad & D.B.A.T.U., Lonere
- An Invited lecture on : Seismic Site Characterization and Dynamic Analysis of Pile Supported Wharf Structure, 8 Sep 2021 at Indo-Chile Workshop on Recent Advancements in Geotechnical Earthquake Engineering
- Special Invited lecture on : Forecasting rainfall induced landslides using Rainfall Thresholds: Case studies from Western Ghats at 7th International Conference on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics
- An Invited webinar on Laboratory to Large-Scale Application of Biocementation in Liquefiable Sand, 18 June 2021 at University of Illinois at Chicago
- An Invited Lecture on Geotechnical Exploration and Investigation Techniques, Dec 2020 at Gyan Ganga Institute of Technology and Science Jabalpur, Madhya Pradesh
- An Invited Lecture on Threshold for the assessment of rainfall induced landslides, Landslide Mitigation & Detailed Project Report (DPR) Preparation, Nov 2020 at IIT Roorkee
- An Invited speaker at NABL-IGS workshop on significance of geotechnical investigations for infrastructure projects, Jan 28th 2019
- An Invited speaker at Masterminds session on Landslide Hazards in India by NCESS, MoES on Landslide Prediction, Monitoring and Early Warning on 10th Jan 2019
- An expert lecture on Landslide hazard and its understanding the failure mechanism on 22nd Dec 2018 at Sri Vidyanikethan College of Engineering, Tirupati
- An invited speaker on Challenges in Geotechnical engineering career on 14th Dec 2018 at IISc Bangalore during IGC 2018
- A keynote speaker on Liquefaction hazard and modelling Advances in Earthquake Engineering on 27th Oct 2018 sponsored by Madhya Pradesh Council of Science and Technology Bhopal at IPS Academy, Indore
- An invited expert lecture by IGS Goa Chapter on SDynamic Soil Structure Interaction of Pile Supported Asymmetrical Structures, October 15th, 2018 at GEC Goa
- A special Invited talk for research collaboration on Landslide prediction models and real time warning system on May 4th 2018 at NCESS Trivandrum

- An Expert lecture on Earthquake Damages and Assessment, April 18th, 2018 at Sri Vishnav Vidhyapeeth Indore.
- An Expert lecture by IGS Indore Chapter on Soil Structure Interaction of Pile Raft foundations, March 24th, 2018 at SGSITS Indore.
- An invited expert lecture by ACCE Indore chapter on Significance of Geotechnical Investigations for various Infra structure Projects, March 23rd, 2018 at Amarvilas Hotel.
- An invited keynote on Landslide hazard and monitoring at Kalimpong, India on 24th Feb 2018 at JNGEC sundernagar, Mandi
- An invited keynote on Aquasense: Development of Smart water monitoring system on 21st Dec 2017 at JNTU Hyderabad
- An Invited theme lecture on Determination of anelastic attenuation factor (Q) and decay factor (k) from ground motion records of the intra-plate region on 14th Dec at IGC 2017
- A Keynote lecture on Landslide Hazard in Jorethang, Sikkim during 18th Sep 2011 earthquake, Geodisasters: ground & slope instability, on Oct 1st, 2016 JNTU Hyderabad
- An invited lecture on Liquefaction Process, Gitam University Hyderabad Campus on 21st Feb 2015
- An invited lecture on Soil structure Interaction analysis of pile supported structures, Two-day National Workshop on “Soil-Structure Interaction (SSI-2014)” 31st Oct– 01st Nov, 2014, GMRIT Vizag
- An invited lecture on Earthquake Process, Dr MCRMHRD, Hyderabad on 28th May 2013.
- An invited lecture on Earthquake Resistant design of foundations during 2 day workshop at University of Bangalore, 26th Oct 2013.
- An invited lecture at Vardhaman Engineering college on “Advances in Geotechnical Engineering”, 5th oct 2013
- Invited lecture on “Site characterization and Ground Response Analysis of Vijayawada city” to Japanese Geotechnical Society, Tokyo on 28th Feb 2012
- An invited lecture on Site investigation and significance of site characterization during 3 - day training programme on Integrated Participative Decentralized Planning for Panchayat Raj Engineers from 4th to 6th October, 2012 at AMR-APARD, Rajendranagar, Hyderabad, 5th Oct 2012
- An invited lectures on Rock mass classification and Rock slope stability analysis during 2 days workshop on significance of Rock mechanics in civil engineering, Department of civil engineering, Andhra University, 1-2 Oct 2012.
- An invited lecture on Importance of Geotechnical Investigations for Civil engineering Structures for practicing civil engineers at Electronics Corporation of India Ltd, GoI on 9th February 2012, Hyderabad
- A Keynote lecture on Liquefaction Assessment of two cities in India using SPT and Vs methods in 1st Indo Japan workshop on Geotechnical earthquake Engineering, 14th Dec 2011, Kochi
- A Keynote lecture on Liquefaction Hazard Assessment for Vijayawada Urban, Symposium on Geotechnical Applications (GeoApps) JNTU Hyderabad, April 15, 2011
- An Invited lectures on 6th and 8th September 2011 at Dr. MCR Human Resource Development Institute of AP, Govt. of AP on Earthquakes: Causes, Effects and Mitigation measures during the training program on Earthquake risk mitigation and management.
- An invited lecture on Foundation design for practicing civil engineers at National Academy of Construction on 9th August 2011, Hyderabad
- A keynote presentation on Liquefaction: Behavior Evidence, Prediction, and Prevention in International conference in Earth Sciences and Engineering on 21.8.10 at Malla Reddy Engineering College.

- A special keynote lecture on Seismic design of Retaining Structures in National Conference on Seismic Design of Earth Structures and Foundations for High Rise Buildings (SDESF 2010) on 26th June 2010
- A keynote presentation on Assessment of Gmax and field CBR of subgrade soil using Multichannel Analysis of Surface Wave (MASW) Testing, Recent Advances in Pavement Engineering, MVSR Engg. College, 26-27 Mar 2010
- A Keynote presentation on Seismic Hazard Assessment for Delhi Region with Respect to Liquefaction Potential at International conference on Natural Hazards and Disaster management, CBIT Hyderabad, Dec 2007
- An Invited Lecture on Seismic Microzonation of Indian Mega Cities, Hyderabad Chapter Indian Geotechnical Chapter, Nov 2006 at JNTU Hyderabad

PROFESSIONAL MEMBERSHIPS

- Life Fellow: Indian Society of Earthquake Technology **LF 61**
- Professional Engineer (Civil Engineering): Engineering Council of India: **PE/01153/16**
- Life Fellow: Indian Geotechnical society **LF 0615**; National Executive committee member since 2019
- Life member : Indian Concrete Institute **LM 8667**
- Associate member: Institution of Engineers (India) **AM 099277-4**
- Life member: Indian Society for Technical Education **LM 77045**
- Life member: Indian Science Congress Association **L 18936**
- Life member Association of Consulting Civil Engineers (India) **LM 2772**; **Executive member**, ACCE Hyd chapter 2013-15
- Member of Earthquake Engineering Research Institute: **M 13174**
- Member of American Society of Civil Engineering: **M 974239**
- Member of International Society for Soil Mechanics and Geotechnical Engineering, IND090038, U.K. **IND110155**
- Member of American Concrete Institute: **01223750**
- Member of International Geosynthetics Society (India) **9830**
- Member of European Geoscience Union
- Member of American Geophysical Union

CONFERENCES/WORKSHOPS/ SEMINARS/ STTPs

1. Organizing Committee member / Coordinator of Major events

- **International Advisory Committee member** at 2nd International Conference on Construction Resources for Environmentally Sustainable Technologies (CREST 2023), Fukuoka, Japan, planned to be held during November 20 - 22, 2023.
- **Scientific Committee member** at the Mediterranean Geosciences Union Annual Meeting (MedGU-21), held in Istanbul, Turkey, on 25-28th November 2021.
- **Session convener**, EGU General Assembly 2022, Towards Reliable Landslide Early Warning Systems, Conveners: Luca Piciullo, Dalia Kirschbaum, Stefano Luigi Gariano, Neelima Satyam, Samuele Segoni
- **Session convener**, AGU Fall Meeting 2021, NH003. Advances in Modeling of Rockslide and Flood Events with Special Reference to the 7 February 2021 Dhaulti-Ganga Disaster in Uttarakhand, Western Himalaya, Conveners: N. Purnachandra Rao, Niels Hovius, Prakash Chauhan and Neelima Satyam

- **Organizing Committee member** for First Indo-Brazilian Geotechnical Webinar, Indian Geotechnical Society, 16-18 June 2021
- **Organizing Committee member** for workshop on “Geotechnical Practices (GeoPractices-2015)” at JNTUH College of Engineering, Hyderabad on 27th February, 2015
- **Organizing Committee member** for seminar on ‘Geotechnics for Irrigation Projects’ on 28th August 2014 at JNTUHCEH- Hyderabad
- **Organizer** for National Conference on Advances in Geotechnical Engineering, 11-12th July 2014 sponsored by DST at IIIT Hyderabad
- **Reviewer** for Seventh International Conference On Case Histories In Geotechnical Engineering and symposium in honor of Clyde Baker Wheeling, IL (Chicago, IL area) – April 29-May 4, 2013
- **Rapporteur** for National conference on Geosynthetics for Infrastructure, 25-26th August 2012, Osmania University.
- **Reviewer** for 2nd International Conference on Geotechnique, Construction Materials and Environment, Kuala Lumpur, Malaysia, Nov.14-16, 2012
- **Organizing Committee member** for Symposium on Geotechnical Practices GeoPractices-2011, 10th Nov 2012, JNTU Hyderabad
- **Chief Guest** for Science Fair 2012 at Rao’s Educational Institution Hyderabad on 29th Feb 2012.
- **Organizing Secretary** for 1st Young Geotechnical Conference of AP (YGeoTech-2012), March 31st 2012
- **Organizing Committee member** for 1 Day Conference on Geosynthetic Lining Solutions and Related Issues, ASCE India Southern Region on 25th February 2012
- **Organizing Committee member** for Symposium on Geotechnical Practices GeoPractices-2011, 5th Nov 2011 JNTU Hyderabad
- **Program chair** for National workshop on research methodology on June 26th 2011, IIIT Hyderabad
- **Reviewer** for 13th International Conference of the International Association for Computer Methods and Advances in Geomechanics, 9-11 May 2011 Melbourne, Australia
- Program chair for the technical event organized by IGS and JNTUH on Geotechnical practices and Design held on 10th April 10
- **Technical Committee member** for International conference in Earth Sciences and Engineering on 21.8.10 at Malla Reddy Engineering College, Hyderabad
- **Course Faculty** for Short-term Course on Seismic Analysis of Highrise Buildings *Organized by* Earthquake Engineering Research Centre, IIIT Hyderabad on 22-24th July 2010
- **Organizing Committee member** for National Workshop on Reinforcement Detailing and Formwork (NWRDF-2009), April 25th, 2009

2. Continuing Education Programmes

- **Course Coordinator** for Three Day Short Course on Short Course on Geotechnical Aspects of Earthquake Engineering during 26th - 28th December 2019.
- **Convener** for 2 Day National seminar on Advances in Geotechnical Engineering, March 29-30 2019
- **Course Coordinator** for Short Course on Recent Advances in Geotechnical and Structural Engineering, March 8-10 2018
- **Course Coordinator** for Short Course on Geotechnical Earthquake Engineering, Jan 29-31 2015
- **Coordinator** for Technical lecture on Design and Construction of Long Span Bridges by Sai Baba

- Ankala, CE Indian Railways on 01 Nov, 2014
- **Coordinator** for Technical lecture on Challenges Involved in Ground Improvement and sustainability of Civil Structures by Prof Anand J Puppala on 18th August 2014
 - **Coordinator** for National Work Shop on Stability of Structures, 27th Sep 2013
 - **Course Coordinator** for Short Course on Geotechnical Aspects of Earthquake Engineering *Organized by Earthquake Engineering Research Centre, IIT Hyderabad on 30May- 1June 2013*
 - **Course Coordinator** for Short Course on Rock Mechanics and Underground Structures *Organized by Earthquake Engineering Research Centre, IIT Hyderabad on 23-25th August 2012*
 - **Coordinator** for Technical lecture series every month in the area of Geotechnical engineering for the year 2011-2012
 - 1) Prof. G.V.Rao on Geosynthetics for Practitioners on 12th August 2011
 - 2) Prof. T.Ramamurthy on Rock mass characterization for designers on 9th Sep 2011
 - 3) Dr V M Sharma from AIMIL on Rock Engineering and Underground construction on 18th Nov 2011
 - 4) Dr Sivakumar Queen's University Belfast on Behaviour of unsaturated soils on 20th Dec 2011
 - 5) Dr Micheal Lysuk, Russia on Soil structure interaction analysis for historical structures in St Petersburg, 13th Feb 2012
 - 6) Dr Kumar Pitchumani, AECOM on Geotechnical engineering theory and practice on 31st March 2012
 - **Course Coordinator** for Short Course on Geotechnical Aspects of Earthquake Engineering *Organized by Earthquake Engineering Research Centre, IIT Hyderabad on 8-10th Dec 2011*
 - **Coordinator** for Short Course on seismic design of RC high-rise structures during May 12-14, 2011
 - **Coordinator** for National Conference on Seismic Design of Earth Structures and Foundations for High Rise Buildings (SDESF 2010) on 26th June 2010

EXAMINER OF THESIS

1. Examiner of external Thesis

1. PhD Thesis entitled REGIONAL AND LOCAL-SCALE ANALYSIS OF LANDSLIDES INDUCED BY RAINFALL AND EARTHQUAKES, Department of Civil Engineering, IISc Bangalore
2. PhD Thesis entitled Multi-Scale Approaches for Monitoring Rainfall-Induced Landslides, Indian Institute of Technology Mandi
3. PhD Thesis entitled DYNAMIC SOIL STRUCTURE INTERACTION OF FRAMED STRUCTURE SUPPORTED ON PILE AND PILED RAFT FOUNDATION, Visvesvaraya Technological University
4. PhD Thesis entitled, SEISMIC BEHAVIOUR OF PILE FOUNDATIONS IN LIQUEFIABLE SOILS, Visvesvaraya Technological University
5. PhD Thesis entitled Performance study on stone columns using waste granular materials for weak soil improvement., Karunya Institute of Technology and Sciences, under the Department of Civil Engineering, Coimbatore, Tamil Nadu
6. Ph.D. thesis entitled Seismic Hazard Assessment of Vadodara Region by Mehta Payal Vatsal, Pandit Deendayal Petroleum University, Gandhinagar 2020
7. Ph.D. thesis entitled STRUCTURAL SEISMIC RESPONSE CONTROL USING PASSIVE CONTROL DEVICES by VAJRESHWARI M.UMACHAGI to Department of Civil Engineering, NITK Surathkal, 2020

8. Ph.D. thesis entitled Analysis of Stiffened Granular Pile with Raft by Ms Raksha Rani Sanadhya (Enrollment No. 14E7UCCEF40P951) to the Rajasthan Technical University, 2020
9. Ph.D. thesis entitled Combined hazard of Tindaria landslide and monitoring by Mr Prashanth Kundu, IIT Delhi, 2019
10. Ph.D. thesis entitled Rainfall Runoff modelling at Godavari basin by Mr JNTU Hyderabad, 2019
11. Ph.D. thesis entitled "Propogation of elastic waves in solids" by Mr. Manoj Kumar Singh at IIT(ISM) Dhanbad, Sep 2018
12. Ph.D Thesis entitled Performance of reinforced soil for gravity retaining wall by Mr Sushil Sagar Sharma, NIT Hamirpur, Feb 2018
13. PhD thesis of Mr Jairaj titled Performance and longevity studies on modified and unmodified coir reinforced soil, Visvesvaraya Technological University, Karnataka. Oct 2018
14. MS by Research thesis examiner for Mr Gaurav Parida, IIIT Hyderabad July 2018
15. M.Tech. dissertation by Srinivas Rao (Roll No. 062040102) of Department of civil Engineering, Jawaharlal Nehru Technological University (JNTU), Kukatpallay, Hyderabad, India, in July, 2008.
16. M.Tech. dissertation by Rambabu (Roll No. 062040312) of Department of Civil Engineering, Jawaharlal Nehru Technological University (JNTU), Kukatpallay, Hyderabad, India in July, 2008.
17. Ph.D dissertation by Mr. P. Ramesh on "Modification of Geotechnical Properties of an Expansive Clay through Inorganic Chemicals" Sri Venkateshwara University Tirupati, 2011
18. Ph.D dissertation by Mrs. N. Sulochana on "Analysis,Assessment and Constitutive Modelling of Soils" Sri Venkateshwara University Tirupati, 2011
19. M.Tech. dissertation by K.Venu (Roll No. 08012D1201) on Stabilization of Expansive Soil with Magnesium Chloride, Department of Civil Engineering, Jawaharlal Nehru Technological University (JNTU), Kukatpallay, Hyderabad, India in June, 2012.
20. M.Tech. dissertation by R.V.S. Raghava Sarma (Roll No. 08012D1216) on Influence of Compaction on CBR and Strength Characteristics of Flyash Gravelly sand and mixtures, Department of Civil Engineering, Jawaharlal Nehru Technological University (JNTU), Kukatpallay, Hyderabad, India in June, 2012.
21. M.Tech. dissertation by D.Praveen Amruth Kumar (Roll No. 09011D3904) on Pullout Behaviour of Anchors Embeded in Sand with and without Suction, Department of Civil Engineering, Jawaharlal Nehru Technological University (JNTU), Kukatpallay, Hyderabad, India in June, 2012.
22. M.Tech. dissertation by K.Shiva Prashantha Kumar (Roll No. 09011D3905) on Physical and Numerical Modeling of One dimensional contaminant Transport considering sorption, Department of Civil Engineering, Jawaharlal Nehru Technological University (JNTU), Kukatpallay, Hyderabad, India in June, 2012.

2. Examine of Internal Thesis (IIIT H):

- Examiner and chair for PhD Thesis on Study of the effects on the ground surface subjected to seismic base fault movement by Mr. mohammed Ahmed Hussain (200712001)
- Examiner and chair for PhD Thesis of Archana Dongre
- Examiner and chair for PhD Thesis of Sushma Pulikanti
- Examiner for MS Thesis on MiSTIC- Mining Spatio-Temporally Invariant Cores by Ms. Kollukuduru Sravanthi (200602013)
- Examiner for MS Thesis on Damage Based Life of Heritage Structures in Saismic Environment, Vrushali K Examiner for MS Thesis on Analysis of Water Flow Through Nano Channels, Ms. Shivangi Singh (200763003)

- Examiner for PhD Thesis on for Chenna Rajaram

SOFTWARE KNOWLEDGE

Staad Pro, Autocad, MS Project, Primavera, C, Surfer, Shake 2000, SeisImager 2D/SW, View 2002, Mapinfo, Degtra, Deepsoil, Phase2, FLAC, PFC 3D

EQUIPMENTS EXPERTISE

48 channel Engineering Seismogram (Oyo Corporation), Microtremor Equipment MR 2002 (Syscom), Ground Penetration Radar (GSSI), Soil and Rock Testing Equipment (laboratory and field), ERT, Pressuremeter test.

TEACHING

1. UG Courses

At IIT Indore (2017-till date)

- CE 304 - Soil Mechanics II - Spring 2019,2020,2021
- CE 354 - Soil Mechanics Laboratory-II - Spring 2019,2020,2022
- CE 305 - Structural Mechanics II - Autumn 2018
- CE 353 - Soil Mechanics Lab I - Autumn 2018, 2019,2020,2021
- CE 359 - Geology Lab - Autumn 2018,2019
- CE 206- Geodesy and Surveying I - Spring 2018 (co-teaching), Spring 2022 (co-teaching)
- CE 256 - Geodesy Laboratory-I - Spring 2018 (co-teaching)
- CE 408 – Foundation Engineering - Spring 2020, Autumn 2020, 2021

At IIT Hyderabad (2009-2017)

- CES 42-Disaster Management - Monsoon 2011, 2012
- IEG 201-Engineering Systems - Spring 2012, 2013
- CEF 211-Soil Mechanics and Laboratory – Spring 2015, 2016,2017
- CET 431-Transportation engineering- Monsoon 2015,2016,2017

2. PG Courses

At IIT Indore (2017-till date)

- CE694 – Earthquake Engineering – Autumn 2019
- CE 654 – Numerical Methods in Civil Engineering- Spring 2018

At IIT Hyderabad (2009-2017)

- GE6301-Foundation Engineering and Design - Spring 2009, 2010, 2011, 2012
- SE6401-Earthquake Engineering - Spring 2009, 2010, 2011, 2012
- SE6402-Geotechnical Earthquake Engineering - Monsoon 2009, 2010
- SE6421-Soil Dynamics and Machine Foundations - Monsoon 2011, 2012

ADMINISTRATIVE RESPONSIBILITIES

1. At IIT Indore

- Head of the Department of Civil Engineering (March 2019-February 2022)
- Vice Chairman, GATE (2020-2022)
- Nodal officer, Vigyan Jyoti Scheme, IIT Indore, June 2020 -till date
- Vice Chairman for JEE (Advanced), 2018- 2020
- Convener, DUGC (Discipline Undergraduate Program Committee), Department of Civil Engineering, 2017- 2019
- Warden, Devi Ahalyabhai Hostel, 2019-2020
- Member, Accommodation and Hospitality committee, 2018- 2020
- Member, Anti ragging and Anti harassment committee, 2018- 2019
- I/c of Soil Mechanics Laboratory, 2018-till date
- Coordinator for B. Tech. 2016 (Civil)
- Warden, Hall of Residence , 2018-2019
- Nodal Faculty from IIT Indore for increasing Women in B.Tech at IITs since March 2018 | [Read more](#)
- Faculty Advisor (Martial Arts) in Sports, Health and Fitness committee for Students. 2018-2019

2. At IIIT Hyderabad

- I/c of Soil Mechanics Laboratory, 2010-2017
- Warden for Girls Hostel and Member of Council of Wardens (COW) (2010-2016)
- Convener of Campus Services Coordination & Beautification Committee (CSCBC), 2009-2012
- Member of Gender Sensitization Committee (GCS), 2015-2017
- Member of International Student Travel Grant committee, 2009-2016