

Name : Sangeetha S.
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Experience (in years): Teaching: 7 year 8 months Others (Industry):3 years

1. Educational / Technical qualifications:

S.No	Level (UG / PG / Ph.D)	Year of passing	Specialization
1	B.E	2011	Civil Engineering
2	M.Tech	2015	Geotechnical Engineering
3.	Ph.D	Pursuing	Geotechnical Engineering

2. Teaching and Learning:

2.1. Teaching Interests:

UG: Geotechnical Engineering II, Computer Aided Building Design, Geotechnical Engineering Lab, Concrete Technology, Soil Mechanics (Geotechnical Engineering I), Surveying, Estimating and Costing, Surveying Laboratory, Surveying & Geomatics, GIS Laboratory

PG: Soil Dynamics and Machine Foundation, Advanced Geotechnical Engineering Lab, Soil Mechanics Lab II, Engineering Rock Mechanics, Ground Foundation and Structure Interaction, Surveying field Work I& II, Geotechnical Engineering Laboratory, Geotechnical Engineering Studio

2.2 Novel Teaching & Learning Techniques adopted: PPTs. Black board teaching, WIT & WIL, Visual aids using animations

2.3 Involvement in curriculum updating / Design:

1. Upgraded R18 syllabus of Estimating and Costing, Engineering Rock Mechanics, Soil-structure Interaction, Dynamics of soil and foundations, Geotechnical Engineering Studio, Soil Mechanics Laboratory I , Soil Mechanics Laboratory
2. Participated in the upgradation of Surveying & Geomatics, Surveying Laboratory of R18 curriculum
3. Attended BoS meeting during the approval of R18(III &IV years) and R19(II year) syllabus.

3. Co-curricular and Extra-Curricular Activities

3.1 Interests and Hobbies: To motivate students about the current trends in Civil Engineering and to lay knowledge regarding the recent societal issues in Civil Engineering aspects.

3.2 CCA/ECA Organized: Co - Ordinated Open House 2019

3.3 CCA/ECA participated: Nil

3.4 Counseling and Mentoring Activity: Mentoring 20 students, of which 10 in II B.Tech and 10 in IV B.Tech

3.5. Committees involved in: Academic committee

Department level: UG academic co-ordinator, Lab incharge, Matrixing, moodle co-ordinator

Institute level: Nil, Member in effective online teaching learning committee.

4. Conference / Workshop / Seminar / Guest Lectures:

4.1 Conducted:

S.No.	Webminar/Seminar	Date
1.	Geo – Series 1 on GPR system	10/05/2020
2.	Geo – Series 3 on Soil reinforcement	12/06/2020
3.	Geo – Series 4 on Urban tunnelling	15/06/2020
4.	PLAXIS In-House Training	1/7/2020 & 2/7/2020

5.	Co-ordinated AICTE sponsored Two-week online workshop	
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4.2 Attended:

S. No	Workshop/Conference	Duration & Year	Organized by
1	Attended Conference on Disaster Preparedness, mitigation, Reconstruction of sustainable society	February 11 & 12, 2016	VNRVJIET under TEQIP II
2	7 days Training on Surface Water Data Entry System(SWDES)	Jan 27 – Feb 1	CSRC, CWC, Bangalore
3	10 days Training programme on Hydrological observations	Feb 17 – Feb 27	HD, CWC, Chennai
4	Completed NPTEL course on Ancient Indian Technology	Jan-April 2016	IIT Madras funded by MHRD, India
5	Completed NPTEL course on Geoenvironmental Engineering (Prof. Manoj Dutta)	Jul-Oct 2017	IIT Madras funded by MHRD, India
6	Attended Symposium on Geopractices	Oct-2017	IGS Hyderabad in Association with IIT Hyderabad and JNTUH
7.	A Five-day FDP on ETL of Geotechnical Engineering using field practices	Dec 6- Dec 10, 2017	NIT Warangal under PMMMNMTT, MHRD, India
8.	Completed NPTEL course on Geotechnical Engineering I	Jan-April 2018	IIT Madras funded by MHRD, India
9.	Completed NPTEL course on Geosynthetics Testing Laboratory	Sep-Oct 2018	IIT Madras funded by MHRD, India
10.	Attended International conference IACMAG 2019, IIT GandhiNagar	March 5-7 2019	IIT Gandhi Nagar in association with Springer
11.	Attended National Conference Geo apps 2019	March 30, 2019	IIT, Hyderabad
12.	Attended BOWM 2019 workshop	October, 3&4 2019	VNR VJIET
13.	Attended LEARNING by DOING on PYTHON	Nov 18 to 23 2020	VNR VJIET
14.	Attended ICCMSSSD 2020	Jan 29-31,2020	VNR VJIET
15.	Attended 2-day ISSMGE TC-102 workshop on Ground Property Characterisation using In-situ Testing	April 26,27, 2019	IISc Bangalore, IGS and ISSMGE
16.	Completed NPTEL course on Environmental Geotechnics (Prof. D. N. Singh)	Nov 16, 2019	IIT Madras funded by MHRD, India
17.	Completed 2-week training programme on Digital Transformation in TLP	March 16,2020-31,2020	TEQIP 3 and NPIU of IIT Bombay

18.	Attended FDP on AI & ML using Python	25/5/2020 to 29/05/2020	Finland Labs in Association with National social summit, IIT Roorkee
19.	Attended FDP on Python 3.4.3	1/6/2020 to 6/6/2020	Vaagdevi Engg College in association with IIT-B spoken tutorial
20.	Attended various online seminars	17/3/2020 to 30/06/2020	Organised by IGS, Geo studio, NPTEL, Be waste wise
21.	Attended IGC 2020	17/12/2020 to 19/12/2020	Organised by IGS & Andhra University
22.	Two Week FDP ACCE (Series-2)	15/02/2021 to 27/02/2021	Sponsored by AICTE and organized by VNR, VJIET
23.	Completed NPTEL course on Applied Environmental Micro Biology	Jan – April 2021	IIT Madras funded by MHRD, India
24.	Completed EnglishScore Core Skills test with Upper Intermediate level rank	April 5 2023	British Council

5. Academic Contribution and Research & Consultancy:

5.1. Invited Lectures: Given Lecture on “Prediction of surface settlement due to underground Tunnel Construction” on Geotechnical Day (March 14,2019) at VNR VJIET.

5.2. Articles/Chapters published in Books:

Published the following articles/book chapter,

- **Sangeetha, S.,** Hari Krishna, P. (2020). Analysis of Heave Behaviour of Expansive Soil Provided with Granular Pile Anchors Using Plaxis. In: Prashant, A., Sachan, A., Desai, C. (eds) Advances in Computer Methods and Geomechanics . Lecture Notes in Civil Engineering, vol 55. Springer, Singapore. https://doi.org/10.1007/978-981-15-0886-8_32
- Katukojwala, S., **Sangeetha, S.,** Hari Krishna, P. (2021). Effectiveness of Bioremediation Technique on Oil Contaminated Marine Soil. In: Satyanarayana Reddy, C.N.V., Saride, S., Halder, S. (eds) Transportation, Water and Environmental Geotechnics. Lecture Notes in Civil Engineering, vol 159. Springer, Singapore. https://doi.org/10.1007/978-981-16-2260-1_7
- Nikhila Bhavani, V., **Sangeetha, S.** (2022). Multiple Linear Regression Analysis of Degradation Phenomena of HDPE Geomembrane Using Machine Learning. In: Das, B.B., Hettiarachchi, H., Sahu, P.K., Nanda, S. (eds) Recent Developments in Sustainable Infrastructure (ICRDSI-2020)—GEO-TRA-ENV-WRM. Lecture Notes in Civil Engineering, vol 207. Springer, Singapore. https://doi.org/10.1007/978-981-16-7509-6_7
- Swetha, B., Sangeetha, S., Hari Krishna, P. (2023). Numerical Prediction of Tunneling Induced Surface Settlement of a Pile Group. In: Ranadive, M.S., Das, B.B., Mehta, Y.A., Gupta, R. (eds) Recent Trends in Construction Technology and Management. Lecture Notes in Civil Engineering, vol 260. Springer, Singapore. https://doi.org/10.1007/978-981-19-2145-2_52

- 5.3. Books published as single author or as editor: NIL

5.4. Projects Guided :

B. Tech Projects

- a) Guided Final year B.Tech students on the topic “Analysis of Behaviour of surface structures adjacent to tunnels during seismic loading
- b) Guided Final year B.Tech students on the topic “ Study on the interaction behaviour compost with different types of soils”
- c) Guided Final year B.Tech students on the topic “ Bioremediation Treatment of Oil Contaminated Soils Using Microorganisms”
- d) Guided Final year B.Tech students on the topic “ Liquefaction potential Assessment of Somnath Temple, Gujarat”
- e) Guided Final year B.Tech students on the topic “Biodegradation of Plastic was on soil like fraction using potential micro organisms”
- f) Guided Final year B.Tech students on the topic “A Study on Biodegradation of polypropylene based on CO₂ Evolution Test”

M. Tech Projects

c) PG : Guided 5 PG students on different domains of Geotechnical Engineering such as Geoenvironmental Engineering, Geosynthetics and Tunnel modelling

5.5. Research Interests: Environmental Geotechnology

5.6. Ph.D students : a) Enrolled and Completed Course work

a) Enrolled : Yes b) Submitted: c) Awarded:

5.7. Papers published in reviewed journals:

- K. Sravya, **S. Sangeetha** (2022) Feasibility study on bioremediation techniques to contaminated soils, Mater. Today Proc. 51 2556–2560, 0, <https://doi.org/10.1016/j.matpr.2021.12.364>.
- V. Nikhila Bhavani, **S. Sangeetha**, (2022) Performance analysis of geomembrane subjected under elevated temperatures, Materials Today: Proceedings, Volume 51, Part 8, 2022, pp 2579-2586, <https://doi.org/10.1016/j.matpr.2021.12.416>
- Pooja Naredla and S Sangeetha, (2022) A Study on the Influence of Vegetation Growth on Slope Stability, *IOP Conf. Ser.: Earth Environ. Sci.* 1032 012003, DOI [10.1088/1755-1315/1032/1/012003](https://doi.org/10.1088/1755-1315/1032/1/012003)

5.8. Papers presented at National / International Conferences :

- Presented paper on “*Analysis of heave behaviour of expansive soil provided with granular pile anchor using PLAXIS*” at **IACMAG 2019**, IIT Gandhi Nagar
- Presented two papers on International Conference on "Construction Materials and Smart Structures for Sustainable Development at VNR VJIET.
- Co-authored paper presented on IGC 2020 titled “Effectiveness of Bioremediation technique on oil contaminated marine soil.
- Co-authored paper presented on International Conference on Recent Development in Sustainable Infrastructure (ICRDSI -2020) KIIT, Odhisa titled International “Performance Analysis of Geomembranes Subjected Under Elevated Temperatures”.
- Co-authored paper presented on Advances in Construction Technology and Management (ACTM-2021) at COE, Pune titled “Numerical Prediction of Tunneling Induced Surface Settlement of a Pile Group”.

- Presented a paper titled “Utilisation of Microwave Oven for Soil Water Content Determination” in the International Conference on Civil Engineering Trends and Challenges for Sustainability (CTCS-2021) during 19th & 20th November, 2021 organized by the Department of Civil Engineering, N.M.A.M. Institute of Technology, Nitte, Karkala
- Co-authored paper titled “A Study on the Influence of Vegetation Growth on Slope Stability” in the 2nd International Conference Advances in Earth and Environmental Studies (AEES 2022) held during February 25th - 26th, 2022 at National Institute of Technology Raipur, Chhattisgarh, India
- Co-authored paper titled “Biodegradation of Disposable mask in municipal solid waste management soil through bioaugmentation” in IGC 2022 Conference held during December 11 to 13th, 2022 at Cochin, India
- Co-authored paper titled “Implementation of Bio-Augmentation on Soil-Like Material from MSW Dump, Rampur, Warangal District for the degradation of Single-Use Polypropylene Masks” in Raise 2023 Conference held during May 15-16th, 2023 at Bundelkhand University, Jhansi and Dr B. R. Ambedkar National Institute of Technology Jalandhar, India

5.9. Sponsored research Projects: NIL

5.10 Consultancy Projects:

Performed Soil testing consultancy services for Gland Pharma Pvt. Ltd, Radiant consultancy, Suriya tech, Sri Sankarsan Constructions, Sreenivasa Associates, GHMC, NCC, Gadi Construction, and for other agencies.

6. Awards / Honors received:

1. Topped 1st Rank in the On-line Course conducted by NPTEL on Ancient Indian Technology
2. Topped 1st Rank in the On-line Course conducted by NPTEL on Geotechnical Testing Laboratory
3. School Second Rank in HSC Board Examination
4. District Second Rank in SSLC Board Examination (Tamil Nadu)

7. Motto:

“Do not go where the path may lead
Go where there is no path and leave a trail”

