

CURRICULUM - VITAE**T. VAMSI NAGARAJU***Assistant Professor***Contact Details :****varshith.varma@gmail.com** 9949636738 **EDUCATION QUALIFICATION**

Doctor of Philosophy 2019-	University	National Institute of Technology Karnataka, Surathkal Geo-environmental Engineering
Master of Engineering 2014-2016	University	A.U college of Engineering (A), Visakhapatnam 530003 Soil Mechanics and Foundation Engineering
Bachelor of Engineering 2010-2014	Institute	S.R.K.R. Engineering College, Bhimavaram 534204 Civil Engineering

RESEARCH/ WORK EXPERIENCE

Organization	Position	Nature of job	Period
SRKR Engineering College, Bhimavaram, AP	Assistant Professor	Teaching and Research	July 2016 to date

SUBJECTS TAUGHT

- Ground Improvement Techniques (PG)
- Traffic Engineering Management (UG)
- Repair and Rehabilitation of Structures (UG)
- Building Materials and Building Construction (UG)
- Geo-Environmental Engineering (UG)
- Geotechnical Engineering –I (UG)
- Geotechnical Engineering –II (UG)
- Advance Concrete Technology (UG)
- Ground Improvement Techniques (UG)
- Transportation Engineering-I (UG)

RESEARCH INTERESTS

- Environmental geotechnics
- Ground improvement techniques
- Geopolymer technology

RESEARCH SUPERVISION

- Under-graduate level projects guided: 11 Batches
- Post-graduated level projects guided: 05

PUBLICATIONS

Publication Citation Index

Google Scholar: 17 (h-index: 03)

Significant Publications (from 2018)

1. Phanikumar, B. R., **Nagaraju, T. V** and Mounika, K.N (2019). Swell and compressibility of fly ash-clay blends in lumps and powders: effect of 4% lime, *Ground Improvement*, <https://doi.org/10.1680/jgrim.18.00079>,
2. Phanikumar, B. R. and **Nagaraju, T. V**. (2019). Swell and Compressibility of GGBS–Clay Mixes in Lumps and Powders: Effect of 4% Lime, *Indian Geotechnical Journal*, ISSN 2277-3347, Volume-49, Issue-2, pp 161-169.
3. Phanikumar, B. R. and **Nagaraju, T. V** (2018). Engineering behaviour of expansive clays blended with cement and GGBS, *Ground Improvement*, <https://doi.org/10.1680/jgrim.17.00054>, Volume-171, Issue -3, pp 167-173
4. Phanikumar, B. R. and **Nagaraju, T. V**. (2018). Effect of fly ash and rice husk ash on index and engineering properties of expansive clays, *Geotechnical and Geological Engineering*, <https://doi.org/10.1007/s10706-018-0544-5> , Volume-36, Issue-6, pp 3425-3436
5. **Vamsi Nagaraju. T**, Hari Venkata Reddy. Ch and Sai Kumar. A (2018). Studies on engineering behaviour of expansive soil stabilized soil by slag and alkali – activated slag – A comparison, *Journal of Emerging Technologies and Innovative Research*, Vol-5, Issue-2, ISSN: 2349-5162.
6. **Vamsi Nagaraju.T**, Bharath. K and Ganesh. R (2018). Lateritic soil stabilized with GGBS geopolymer as a sustainable pavement base material, *Journal of Emerging Technologies and Innovative Research*, Vol-5, Issue-2, ISSN: 2349-5162.
7. **Vamsi Nagaraju. T**, Pavan Naresh S. D, and R. Gandhi Krishna (2019). Effect of alkali-activated clay cushion on CBR of expansive clay, *Recent Advances in Sustainable Geotechnics*, IIT Kanpur, Kanpur
8. **Vamsi Nagaraju. T**. and J. V. S. Sai Charan (2019). Estimation of CBR from index properties and compaction characteristics of fine grained and coarse grained soils,
9. **Vamsi Nagaraju. T**, Saiteja. K, Venkat Rao. M and Pavan Naresh S. D. (2019). Effect of drying-wetting cycles on strength characteristics of alkali-activated lateritic soils, *NICEST-19*, MGIT, Hyderabad
10. **Vamsi Nagaraju. T**, Prudhvi Raj. M, M. Venkata Rao, T. S. Sumanth Reddy (2019). Influence of fly ash and silica fume on strength characteristics of alkali-activated lateritic soils – A comparison , *NICEST-19*, MGIT, Hyderabad
11. **Vamsi Nagaraju. T**, M. Venkata Rao, R. Gandhi Krishna and Ch. Hari Venkat Reddy (2019). Variability in the engineering properties of a lateritic soils from eastern and western coast of India, ISSMGE TC107, Laterites and Lateritic Soils, GEC Goa
12. **Vamsi Nagaraju. T**, S. D. P. Naresh and M. Jagapathi Raju (2019). Evaluation of coconut coir reinforced alkali-activated lateritic blends for low volume pavements, ISSMGE TC107, Laterites and Lateritic Soils, GEC Goa
13. **Vamsi Nagaraju. T.**, Hima Bindu. K and Tanusha. N. (2019). Swell-compressibility behavior of an expansive clay blended with silica fume and blast furnace slag, ICGGE, ISBN: 978-93-80634-47-0, MNIT Allahabad
14. **Vamsi Nagaraju.T** (2019). Prediction of compression index (Cc) of blended expansive clays using particle swarm optimization, *Symposium of the International Association for Computer Methods and Advances in Geomechanics (IACMAG Symposium 2019)*, IIT Gandhinagar
15. **Vamsi Nagaraju. T**, Durga Prasad. Ch and N. G. K. Murthy (2018). Invasive weed optimization algorithm for prediction of compressive index blended expansive clays, SocPros2018, VIT
16. **Vamsi Nagaraju. T**, Durga Prasad. Ch and Jagapathi Raju. M (2018). Prediction of California bearing ratio using particle swarm optimization, SocPros2018, *Springer*, VIT

17. **Vamsi Nagaraju T.** and Satyanarayana. P.V.V. (2016). Geotechnical aspects of various constructions along the canal embankments, Ground Improvement Techniques and Geosynthetics: *Edited by Tyagaraj .T, Springer Nature, ISBN: 978-981-13-0558-0, 2019*, Chapter -16, LNCE, Volume- 14, pp, 143-150
18. **Nagaraju T.V.**, Prasad C.D., Raju M.J. (2020) Prediction of California Bearing Ratio Using Particle Swarm Optimization. In: Das K., Bansal J., Deep K., Nagar A., Pathipooranam P., Naidu R. (eds) Soft Computing for Problem Solving. Advances in Intelligent Systems and Computing, vol 1048. Pp 795-803, Springer, Singapore
19. **Vamsi Nagaraju T.**, Durga Prasad C., Murthy N.G.K. (2020) Invasive Weed Optimization Algorithm for Prediction of Compression Index of Lime-Treated Expansive Clays. In: Das K., Bansal J., Deep K., Nagar A., Pathipooranam P., Naidu R. (eds) Soft Computing for Problem Solving. Advances in Intelligent Systems and Computing, vol 1057, pp 317-324, Springer, Singapore
20. **Nagaraju, T. V.**, & Prasad, C. D. (2020). New Prediction Models for Compressive Strength of GGBS-Based Geopolymer Clays Using Swarm Assisted Optimization. In *Advances in Computer Methods and Geomechanics* (pp. 367-379). Springer, Singapore.

SITE INVESTIGATION

1. Risk Assessment from canal embankment subgrade in Ibrahimpatnam-Pedhalanka Road Site in Krishna District, Andhra Pradesh, India (Collaborator: T. Vamsi Nagaraju)
2. Sub soil investigation for Carin Oil and Gas road project, S-Yanam, East Godavari District, Andhra Pradesh, India (Collaborator: Prof. V. Rama Raju and T. Vamsi Nagaraju)

AWARDS / ACHIEVEMENTS

1. **Best Paper Award** in “Young Researchers Symposium for Geotechnical Engineers”, NIT Warangal, 2018, Oct 1st-2nd.
2. **Secured State level first prize** worth Rs. 75000/- for an innovative idea “**VR-Geo Tiles and Blocks**”, Invest India, Startup India Andhra Yathra, GITAM Deemed University, Visakhapatnam, 2018, September 11th.

Membership of Professional Bodies

Life member, Indian Geotechnical Society (IGS)

ADMISTRATION DUTIES

IUCEE-EPICS Civil Engineering Department Coordinator (2017-2019)

Department Project Assessment and Evaluation Committee member (2017-2020)

Department Coordinator for college website

I hereby declare that the information furnished above is true to the best of my knowledge.

T. VAMSI NAGARAJU