

Prof. Shruthi Johnson

Assistant Professor



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[Google scholar : Shruthi Johnson](#)

Qualifications:

- B.Tech – Civil Engg. (Kerala University)
- M. Tech – Geotechnical Engineering (Kerala University)

Professional Experience:

- Assistant Professor, LBSITW, Trivandrum (2020 Jan -Till date)
- Assistant Professor, Marian Engg College, (2018-2019)
- Assistant Professor, Hindustan College of Engg (2017-2018)

Recently Taught Courses:

- [Environmental Health and Safety](#)
- [Ground Improvement Techniques](#)
- [Basic of Civil Engg](#)
- [Geotechnical Engg Lab](#)
- [Transportation Lab](#)
- [Civil Engg Workshop](#)
- [Disaster Management](#)
- [Construction Technology and Management](#)
- [Environmental Impact Assessment](#)
- [Life skills](#)
- [Principle of Management](#)

Other Responsibilities:

- IGS Student Chapter , Faculty Incharge (2020-till date)
- Staff Advisor S8 (2017-2021 CE)
- Staff Advisor S6, S7 (2018-2022 CE)
- Staff Advisor S6, S7 (2019-2023 CE)
- Civil Work (2022-Till date)

- CE Dept Convocation Committee 2020 and 2021.
- GT Lab Incharge(2020- 2022)
- Civil Engg Workshop Incharge (2022- till date)
- Scrutiny Committee
- External Examiner Geotechnical Engg Lab at CET(2022)
- External Examiner Transportation Engg Lab at Marian Engg College (2022)

- Organising Chair - GEOCON-2020 [National Conference On Geotechnical Concrete Structures]
- Chaired Technical Track

- Reviewer - GEOCON-2020 [National Conference On Geotechnical Concrete Structures]

- Organising Chair - GEOCON-2021 [National Conference On Geotechnical Concrete Structures]
- Chaired Technical Track
- ORGANISED - KTU SPONSORED FDP 2022
- ORGANISED – TEQUIP Sponsored Geotrans FDP 2021
- ORGANISED – TEQUIP Sponsored Geocon InterNational Conference 2020

Important Publications:

1. International Journal papers

- Shruthi Johnson,, ‘A Study on the Swell Behavior of Expansive Clays Reinforced with Saw dust, Coir pith & Marble dust’ International Journal of Engineering Research and Technology ,Vol.5 Issue 09,September 2016
- Effect of Foundry Sand on the Compaction Characteristics of Metakaolin Soil. *International Journal for Scientific Research and Development (IJSRD)*, volume. 7, issue.1,pp.116-119
- Effect of Foundry Sand on C.B.R Characteristics of Soil. *International Journal of Engineering Development and Research (IJEDR)*, volume. 7, issue. 1, pp.1154-11555
- “Influence of Fine Quarry Dust and Quicklime on the Properties of Clayey Soil”, International Journal for Scientific Research and Development (IJSRD), 6 (12), Feb 2019, pp. 484-487.
- “Enhancement of Durability of Quarry Dust Stabilized Soft Clayey Soil using Oxides of Calcium and Aluminium”, International Research Journal of Engineering and Technology (IRJET) ,6(2), Feb 2019, pp. 1405-1408.
- A study on the effects of chemicals on the geotechnical properties of bentonite and zeolite mixture as clay liner. International journal of research in engineering science and management(IJRESM),vol.2 ,issue 3 pp-490-492
- Influence of flood on the behaviour of friction piles . Journal of Advances in Geotechnical Engineering (HBRP Publications)Volume 3 Issue 1

- Influence of flood on the behaviour of friction piles .**SPRINGER PUBLICATIONS**: https://doi.org/10.1007/978-981-15-8151-9_6(2019-2020)
- Influence of oil spill on the Load settlement behavior of footings of adjacent structures. **SPRINGER PUBLICATIONS**(20-21)

Research & Consultancy:

- Title of PG Thesis “ A Study on the Swell Behavior of Expansive Clays Reinforced with Saw dust, Coir pith & Marble dust”
- Geotechnical Consultancy work-
- Determination of particle size of soil , RQD Calculations, Assisted in the Design of Alapuzha Canal

Conference/Paper Presentation:

1. National Conferences

- “Effect of Foundry Sand on the Geotechnical Properties of Kaolinite Soil”, Proceedings of National Conference on Innovations in Civil Engineering ICE 2019, Trivandrum, Kerala, April 2019.
- [Effect of Foundry Sand as a Soil Stabilizer](#), National conference on scholastics of industry and innovation- NCSII-2019.
- “Enhancement of Subgrade Strength of Soft Clayey Soil Using Quarry Dust and Quicklime”, Proceedings of National Conference on Scholastics of Industry and Innovation (NCSII), Trivandrum, Kerala, March 2019.
- “Use of Clay-Magnesium Oxide Mix as Permeable Reactive Barrier to Remove Copper from Leachate”, Proceedings of National Conference on Innovations in Civil Engineering ICE 2019, Trivandrum, Kerala, April 2019.
- [A review on the effect of chemicals on the geotechnical properties of soil](#) National conference on innovations in civil engineering -ICE 2018
- [Strength characteristics of bentonite zeolite mixture](#), National conference on scholastics of industry and innovation -NCSII -2019

2. International Conferences

- [Effect of Calcium Oxide and Aluminium Oxide on the Durability of Quarry Dust Stabilized Soft Clayey Soil](#)”, Proceedings of International Conference on Innovative Trends in Science and Technology ICITST 2018, Trivandrum, Kerala, November 2018.
- [Effect of Foundry Sand on Compaction & C.B.R Characteristics of Kaolinite Soil](#), International

conference on innovations in engineering science and technology- ICITST-2018.

- [A study on the effects of chemicals on the geotechnical properties of bentonite and zeolite mixture as clay liner](#), International conference on innovations in engineering science and technology -ICITST -2018
- [Influence of flood on the behaviour of friction piles](#) ,International conference on recent advances in Civil Engineering (ICRACE 2020) ,CUSAT 15-17 July 2020
- [Detrimental effects of oil spill on the behaviour of footings of nearby structures](#), 3rd International Conference on Advances in Civil Engineering(ICACE2021)
- [Influence of oil spill on the behaviour of nearby footing](#) , 3rd International Conference on Advances in Civil Engineering(ICACE2021)
- [Influence of oil spill on the load- settlement behaviour of footings of adjacent structures](#), Indian Geotechnical Conference 2021(IGC 2021),Trichy
- [Embankments Resting On Soft Soil Reinforced With Encapsulated Geogrid](#), National Conference on Geotechnics and Concrete Structures Geocon, LBSITW,2021