

## GOPIKA RAJAGOPAL

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## Research Interests

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Slope stabilization and Retaining structures

## Educational Qualification

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**Ph.D.** (Aug 2020 – Present) CGPA – 9.75/10

- Indian Institute of Technology, Palakkad
- Area – Slope stabilization; Helical soil nails; Soil-structure interaction
- Advisor – Dr. Sudheesh T.K.

**M.S. by Research** (Jan 2018 – July 2020) CGPA – 9.35/10

- Indian Institute of Technology, Palakkad
- Thesis Title - Evaluation of the Performance of Hybrid Back-to- Back Mechanically Stabilized Earth Walls with Select and Marginal Backfills
- Area – Reinforced earth walls and Rainwater Infiltration Analysis
- Advisor – Dr. Sudheesh T.K.

**B.Tech. in Civil Engineering** (July 2013 – July 2017) CGPA – 9.07/10

- NSS College of Engineering, Palakkad
- Calicut University

## Experience

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**Teaching Assistant** (Jan 2018 – July 2020)

- IIT Palakkad (As part of M.S. fellowship)
- Assisted for – Geotechnical Engineering; Advanced Foundation Engineering; Geotechnical Engineering Laboratory; Construction Materials Laboratory; Building Drawing (AutoCAD)

**Project Associate** (Aug 2017 – Dec 2017)

- IIT Palakkad
- Involved in setting up of Construction Materials Laboratory

## Publications

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- **Rajagopal, G.,** and Thiyyakkandi, S. (2021). Effect of Reinforcement Stiffness on the Response of Back-to-Back MSE Wall upon Infiltration. *Geosynthetics International*, 1-46. <https://doi.org/10.1680/jgein.21.00043>
- **Rajagopal, G.,** & Thiyyakkandi, S. (2021). Numerical evaluation of the performance of back-to-back MSE walls with hybrid select-marginal fill zones. *Transportation Geotechnics*, 26, 100445. <https://doi.org/10.1016/j.trgeo.2020.100445>

## Conferences

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- **Gopika Rajagopal** and Sudheesh T.K., (2019). “Numerical Analysis of Hybrid Back-to-Back MSE Wall with Select and Marginal Backfill. 7<sup>th</sup> Indian Young Geotechnical Engineers Conference, NIT Silchar, Assam (Paper No. 20)

## Internship

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- Design of Substructures in Geotechnical Engineering, June 2017, IIT Palakkad, Kerala

## Award/Prize/Certificates

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- **Prime Minister’s Research Fellowship** (PMRF May 2020 direct entry scheme)
- **Best Paper Award**, for the paper titled “*Numerical Analysis of Hybrid Back-to-Back MSE Wall with Select and Marginal Backfill*” published in the proceedings of 7<sup>th</sup> IYGEC 2019, Silchar has been adjudged as the best paper published during immediate past Indian YGE Conference
- Presented a Poster titled “Fully Coupled Flow Deformation Analysis of Hybrid Back-to-Back MSE Wall” at the Research Scholars Day, held at IIT Palakkad, Kerala, India during 28 Sept, 2019
- Presented a Poster titled “Back-to-Back MSE Wall with Composite Backfill: Deformation Characteristics and Tension Development” at the Industry Academia Conclave, held at IIT Palakkad, Kerala, India in the year 2019
- Awarded Certificate of Excellence by University of Calicut
- Best Student Award by Department of Civil Engineering, NSS College of Engineering, Palakkad during academic year 2015-2016