

## CURRICULUM VITAE

### **DARSHAN C SEKHAR**

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### **Education:**

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| 2017 | <b>Ph.D in Geotechnical Engineering</b><br>National Institute of Technology Karnataka, Surathkal                   |
| 2013 | <b>M.E. in Geotechnical Engineering (Distinction)</b><br>University Visvesvaraya College of Engineering, Bangalore |
| 2011 | <b>B.E. in Civil Engineering (First Class with Distinction)</b><br>Global Academy of Technology, Bangalore         |

### **Work Experience:**

- Currently working as an Assistant Professor at The Department of Civil Engineering, BMSCE from Dec 2021
- Registered Trainer at L&T CTEA, Mysuru. Handled sessions for GETs and FLS
- Worked as a Geotechnical Consultant in L-N Civil Tech from 2020 to 2021
- Worked as an Assistant Professor in the Department of Civil Engineering, at National Institute of Engineering, Mysuru from 2017 to 2020.
- Worked as a Senior Research Fellow from 2013 to 2014 at The Department of Civil Engineering, Indian Institute of Science, Bangalore

### **Subjects taught**

- A) Subjects taught at Undergraduate Level: Fundamentals of Geotechnical Engineering, Applied Geotechnical Engineering, Analysis of Determinate Structures, Engineering Mechanics, Concrete Technology, Building Planning and Drawing, Geotechnical Engineering Laboratory, Survey Practice -2, Highway Material Testing Laboratory, Wastewater treatment
- B) Subjects taught at Postgraduate Level: Analysis & Design of Sub Structures

### Administrative Works:

- NBA Co-ordinator of UG Civil in 2020 at NIE Mysuru
- NAAC Co-ordinator from Civil Engg Dept in 2020 at NIE Mysuru
- Faculty Co-ordinator for placement activities from Civil Engineering Department at NIE Mysuru

### Miscellaneous Activities:

- Actively involved in UG Civil and PG – Structural Engineering NBA during academic year 2018-19 and 2019-20.
- Actively involved in Consultancy activities related to geotechnical engineering at the department at NIE Mysuru

### Research Publications:

MV Parikshith, **CS Darshan** (2019). “Feasibility of flyash based geopolymer for soil stabilization”. *International Journal of Innovation Technology and Exploring Engineering*, Scopus Indexed Journal, Volume 9, Issue 1, page no. 4348-4351

MV Parikshith, **CS Darshan** and K Rajath (2019). “Impact of sewage water intrusion on bearing capacity and dewatering by Electrokinetic Remediation”. International Conference on Innovative Trends in Civil Engineering for Sustainable Development, NITW, Telangana, India, 234-235.

**Sekhar, D. C.** and Nayak, S. (2018). “Utilization of granulated blast furnace slag and cement in the manufacture of compressed stabilized earth blocks”. *Construction and Building Materials*, volume 166, page 531, <http://dx.doi.org/10.1016/j.conbuildmat.2018.01.125>, Elsevier publications.

**Sekhar, D. C.** and Nayak, S. (2017). “SEM and XRD investigations on lithomargic clay stabilized using granulated blast furnace slag and cement.” *International Journal of Geotechnical Engineering*, <https://doi.org/10.1080/19386362.2017.1380355>, Taylor and Francis publications.

**Sekhar, D. C.**, Nayak, S. and Preetham, H.K. (2017). “Influence of granulated blast furnace slag and cement on the strength properties of lithomargic clay.” *Indian Geotechnical Journal*, Volume 47, Issue 3, page 384, DOI 10.1007/s40098-017-0228-8, Springer publications

**Sekhar, D. C.**, Nayak, S., Reva Venu, V.M. and Preetham, H.K. (2017). “Investigation on granulated blast furnace slag as an effective stabilizer for lithomargic clay.” *International Conference on Geotechniques for Infrastructure Projects*, Thiruvananthapuram, Kerala, India.

**Sekhar, D. C.**, Pratibha, R. and Sivakumar Babu, G.L. (2014). “Support of an excavation with micropiles and nailing: A case study.” *Proceedings of Indian Geotechnical Conference*, Kakinada, India, 1913-1916.

### **Research and Development:**

Worked as a Senior Research Fellow (SRF) at IISc, Bangalore from Dec 2013 to July 2014 and later as Research Scholar at NITK, Surathkal from July 2014 to July 2017.

<https://orcid.org/0000-0001-7070-9750>

Scopus Author ID: 57195838692

### **Research Projects Applied:**

Applied as Co-Principal Investigator in

- Fund for Improvement of S&T Infrastructure (FIST)-2019 of the Department of Science & Technology (DST), Government of India.
- K-FIST L2, Feb-2022, Vision Group on Science and Technology (VGST) from BMSCE, Bangalore
- Science, Technology And Innovation (STI) interventions in the State, Karnataka State Council for Science and Technology (KSCST), Sept 2022 from BMSCE, Bangalore

### **Conferences/Seminars/Webinars/Workshops/FDPs attended:**

Participated in Online Faculty Development Programme on “Geotechnical Engineering Practices”, Sponsored by APJ Abdul Kalam Technological University ,organized by the Department of Civil Engineering, LBS Institute of Technology for Women, in association with Indian Geotechnical Society, Thiruvananthapuram Chapter from 10th to 14th Oct , 2022 .

Participated in One Week Online Teachers Training Program On “An Overview of Teaching Techniques in Earthquake Resistant Design of Structures” 16th – 20th May 2022, by AICTE – VTU Joint Teachers Training Programme, Visvesvaraya Technological University, VTU Human Resource Development Cell (VTU - HRDC) Centre for Post-Graduation Studies, VIAT, Muddenahalli, Chikkaballapur (Dist.) -562101

Participation in Webinar lecture series on “GROUND IMPROVEMENT TECHNIQUE (Phase – III) - Stabilisation, Densification and stone columns” on 29th - 30th April 2022 organized by Indian Geotechnical Society Baroda chapter in association with Applied Mechanics Department, M. S. University of Baroda and Parul University

Participated in the 5-day FDP on “Case studies in geotechnical engineering” organized by department of civil engineering in association with ISTE Chapter, Presidency University, Bangalore from 14<sup>th</sup> March to 18<sup>th</sup> March 2022

Participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Carbon Balance and Environmental Sustainability" from 07/02/2022 to 11/02/2022 at BMS College of Engineering, Bengaluru.

Completed AICTE-ISTE approved Orientation/Refresher Programme on "Theory and Practical Essence of Bridge Engineering" held during 1<sup>st</sup> to 7<sup>th</sup> February 2022 organized by KLS Gogte Institute of Technology, Belagavi

Participated in the webinar on "Analysis and design of deep foundations under uplift loads: A Geotechnical perspective" organized by SC 7-Student chapter activities and continuing education, IGS on 11<sup>th</sup> Feb 2022

Participated in 5 days workshop on "Applications of software in civil engineering" from 23<sup>rd</sup> to 27<sup>th</sup> August 2021 by Amity school of engineering and technology, Amity University, Haryana

Participated in Indo-Chile workshop on "Recent advancements in geotechnical earthquake engineering" from 7<sup>th</sup> to 9<sup>th</sup> Sept 2021.

Participated in technical talk on "Well foundation: Construction Practices" on 4<sup>th</sup> Sept 2021 organized by Ultra Tech Cement Ltd.

Participated in the Five Days Workshop on "Applications Of Software In Civil Engineering" from 23<sup>rd</sup> August to 27<sup>th</sup> August 2021 organized by the Department of Civil Engineering, Amity School of Engineering & Technology (ASET), Amity University Haryana, Gurugram, India.

Participated in national workshop on recent advances in geotechnics for infrastructure (RAGI 2020) from 14<sup>th</sup> to 17<sup>th</sup> May 2020.

Attended six-hour course on "Safety in the construction industry" from Centre for workplace safety and health, at NIE Mysuru on 7<sup>th</sup> December 2019.

Participated in one-week FDP on "Developing Next Generation Faculty" held during 22<sup>nd</sup> July to 28<sup>th</sup> July 2019, held at NIE Mysuru

Participated in two-day workshop on "Challenges in measurement of flow in streams and other open channels" held on 27<sup>th</sup> and 28<sup>th</sup> April 2018 at NIE, Mysuru

Participated in a five-day short-term course under Continuing Education Programme on "Recent Advances in Transportation Engineering held on 5<sup>th</sup> to 9<sup>th</sup> March 2018 at IIT, Delhi.

Participated in two-day workshop on "Advanced Materials and Technologies in Civil Engineering Construction" held on 23<sup>rd</sup> and 24<sup>th</sup> Feb 2018 at NIE Mysuru

Attended a training programme on “Project management tool training” using Primavera 16.2 PPM Module on 19<sup>th</sup>, 20<sup>th</sup>, 21<sup>st</sup> Feb 2018 at NIE Mysuru

Participated in Design Safe 2017, one day colloquium on “Liquid Retaining Concrete Structures” on 2<sup>nd</sup> December 2017 held at NIE, Mysuru

Participated in two-day workshop on “Case histories and research avenues in geotechnical engineering” on 23<sup>rd</sup> and 24<sup>th</sup> October 2013 at UVCE, Bangalore University

Participated in two-day workshop on “Earthquake resistant design of foundations” on 25<sup>th</sup> and 26<sup>th</sup> October 2013 at UVCE, Bangalore University

Participated in two-day workshop on “Advances in geotechnical engineering” on 28<sup>th</sup> and 29<sup>th</sup> October 2013 at UVCE, Bangalore University

### **Training Programme conducted:**

- Co-ordinated Student Induction Program for first year BE students during 7<sup>th</sup> to 25<sup>th</sup> August 2018, NIE Mysore
- Recognized trainer for L&T, CTEA Mysuru from 2020 till now

### **Invited Technical Talks Delivered:**

1. Delivered a talk on “Laboratory Tests on Materials in Engineering” held on 15<sup>th</sup> November 2018 for RDPR engineers at Abdul Nazir Sab State Institute of Rural Development, Administrative Training Institute, Mysuru
2. Delivered a talk on “Site Selection and Construction activities for various foundations” at Forest Staff Training Institute, Forest Department, Ilwal, Mysuru on 13<sup>th</sup> July 2019.
3. Delivered many lectures on “Advanced foundation and piling”, “Soil investigation”, “Case studies on geotechnical failures” “Construction Management equipment’s”, “Excavation and backfilling” etc. at L&T, CTA, Mysuru for GET, FLS and students from various colleges.
4. Delivered a talk on “Laboratory Investigation of slope stability analysis” for Staff Development Programme at Civil Engg Dept., BMSIT&M, Bangalore on 10<sup>th</sup> July 2020
5. Delivered a technical talk on “Geotechnical investigation from geotechnical perspective” at Civil Engg Dept, SVCE, Bangalore on 8<sup>th</sup> July 2021
6. Delivered a technical talk as a resource person in a five day FDP (4<sup>th</sup> to 8<sup>th</sup> April 2022) on “Innovative Construction Materials and Waste Management Practices” on 7<sup>th</sup> April 2022 at the department of civil engineering and construction technology and management, DSCE, Kumaraswamy layout, Bangalore

**Other achievements:**

- Reviewer in Journal of Building Engineering, Elsevier Publications
- Reviewer in Journal of Cleaner Production, Elsevier
- Reviewer in Case Studies in Construction Materials, Elsevier
- Reviewer in Transportation Infrastructure Geotechnology, Springer Publications
- Reviewer in Materials Today: Proceedings, Elsevier
- Reviewer in Heliyon, Elsevier
- Reviewer in Egyptian Journal of Petroleum, Elsevier
- Reviewer in Journal of Materials Science Research and Reviews, Publons
- Reviewer for International conference on Sustainable Construction and Building Materials ICSCBM 2018 held at NITK, Surathkal
- Reviewer for National Conference on Emerging Trends in Science and Engineering NCETSE 2019 held at Shri Madwa Vadiraja Institute of Technology and Management, Bantakal
- Reviewer and Session Chair for International Conference on Recent Trends in Science and Technology ICRTST-2020 held at ATME College of Engineering, Mysuru
- Reviewer for International conference on Advances in Construction Technology and Management (ACTM-2021) held at College of Engineering, Pune

**Member of any professional bodies:** Life member of ACCE(I) Membership No. 5003-L