

Curriculum Vitae

SRIJAN

Assistant Professor,
Department of Civil Engineering,
Shri Mata Vaishno Devi University, Katra,
J&K, India – 182320.



Contact information

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Educational qualifications

Degree	Institution	Area	Year
Ph.D.	Delhi Technological University	Civil Engineering	2023-Thesis Submitted
M.Tech.	Delhi Technological University	Civil Engineering (Specialization: Geotechnical Engineering)	2017
B.E.	Anna University	Civil Engineering	2014

Experience

Designation	Institute/Organization	Duration
Assistant Professor	Shri Mata Vaishno Devi University	December, 2021 to till date
Teaching Assistant	Delhi Technological University	August, 2017 to November, 2021
Teaching Assistant	Delhi Technological University	August, 2015 to June, 2017

Research interests

- Geotechnical and Geo-Environmental Engineering
- Ground Improvement Techniques
- Reinforced Soil Structures
- Physical and Numerical Modelling of Geotechnical Problems

List of publications

1. **Srijan** and Gupta, A.K. Horizontally Layered and Vertically Encased Geosynthetic Reinforced Stone Column: An Experimental Analysis, *Appl. Sci.* (2023), 13, 8660. <https://doi.org/10.3390/app13158660>.
2. **Srijan** and Gupta, A.K. Vertically and Horizontally Reinforced End-Bearing Stone Column: An Experimental and Numerical Investigation. *Appl. Sci.* (2023), 13, 11016. <https://doi.org/10.3390/app131911016>.
3. Javid, A., Pandey, B.K. & **Srijan**. Performance Evaluation of Clayey Soil Considering Impact of Lime During Electrokinetic Consolidation. *Arab J Sci Eng* (2023). <https://doi.org/10.1007/s13369->

[023-08148-2](#).

4. **Srijan** and Gupta, A.K. The effect of using a sand column on the expansive soils swelling characteristics, *Journal of Current Research in Engineering and Sciences* (2022), Vol 5, Issue 1.
5. **Srijan** and Gupta, A.K. Effectiveness of Triangular and Square Pattern of Stone Column with Varying S/D Ratio on Consolidation Behaviour of Soil, *Second ASCE India Conference, Kolkata, March-2020- AIC 2020-318- 862*.
6. **Srijan** and Gupta, A.K. A Review article on Construction, Parametric Study and Settlement Behaviour of Stone Column, *IOP Conference Series: Earth and Environmental Science* 796 (2021) 012021, <https://doi.org/10.1088/1755-1315/796/1/012021>.
7. **Srijan**, Narula, G., Sharma, A. and Dogra, V.K. Effect of Fly Ash on Geotechnical Properties of Soft Soil: A Critical Review, *Eng. Proc.* (2023), 56, 269. <https://doi.org/10.3390/ASEC2023-16619>.
8. Narula, G., **Srijan**, Sharma, A., Dogra, V.K. and Gupta, A. Planning of Solar Steam Cooking System at SMVDU, *Eng. Proc.* **2023**, 56, 214. <https://doi.org/10.3390/ASEC2023-16353>.
9. **Srijan** and Gupta, A.K. A Basic Study on Ground Improvement Techniques and its Applications, 9th Civil Engineering Conference in the Asian Region (CECAR9) 2022, Goa, India. (In Press)
10. **Srijan** and Gupta, A.K. Numerical Investigation of Behaviour of Geosynthetic Encased Stone Column in Soft Clay Bed, *Indian Geotechnical Conference 2022, Kochi Chapter, India.* (In Press)
11. **Srijan**, Singh, A. and Vatsa, H. Use of Geotextile as an Innovative Material in the field of Geotechnical Engineering: A Review, *Indo-African International Conference on Advancements in Construction Materials (ICACM 2023), Hyderabad, India.* (In Press)
12. **Srijan**, Somra, K., Kharra, P. and Singh, S. Use of Sustainable Material as Column Filler in Soft Clay Bed Reinforced with Stone Column: Numerical Study, *International Conference on Creative and Innovative Solutions in Civil Engineering (CISCE-2023), MNIT Jaipur, August 2023.* (In Press)
13. **Srijan**, Vatsa, H. and Singh, A. A study on the behaviour of soft clay under embankment loading, *International Conference on Creative and Innovative Solutions in Civil Engineering (CISCE-2023), MNIT Jaipur, August 2023.* (In Press)
14. Singh, A., Vatsa, H., **Srijan** and Narula, G. Behavioural Study of Reinforced Soft Soil Bed Supporting Embankment: Numerical Analysis, *Indian Geotechnical Conference 2023, Roorkee Chapter, India.* (In Press)
15. **Srijan** and Gupta, A.K. Geotextile Applications and Innovation in Geotechnical Engineering: A Review, 3rd International Conference on Applied Engineering and Natural Science (ICAENS) 2022, Konya, Turkey.
16. Mahnoor, Sharma, A., Singh, P. and **Srijan**. Reinforcement of soil using natural fiber: A review, 1st International Conference on Innovative Academic Studies (ICIAS) 2022, Konya, Turkey.
17. Dogra, S., Nanda, S., Shubham, Slathia, A. and **Srijan**. Reinforcement of soil using synthetic fiber: A review, 1st International Conference on Innovative Academic Studies (ICIAS) 2022, Konya, Turkey.

Teaching

1. Geotechnical Engineering, I and II
2. Rock Mechanics and Tunneling Technology
3. Engineering Geology
4. Construction Management and Estimation
5. Reinforced Earth and Geotextiles
6. High Speed Railway Engineering
7. Soil Mechanics Laboratory
8. Water Resource Engineering Laboratory
9. Fluid Mechanics Laboratory
10. Structural Analysis Laboratory

1. Faculty in charge for registration of students.
2. Faculty in charge for conduction of Comprehensive Examination (Batch 2019).
3. Faculty in charge of Library (for Civil Engineering).
4. Faculty in charge for development of Geotechnical Engineering Lab and Computer Lab in department of Civil Engineering.
5. Member of Board of Studies of School of Civil Engineering.
6. Member of Academic Affairs Committee of Civil Engineering.

Awards and achievements

1. University Rank Holder in Bachelor's Degree.
2. Recipient of "Ministry of Human Resource Development, Government of India" scholarship during M. Tech (August 2015 – July 2017).
3. Recipient of "PhD Fellowship" by Delhi Technological University during my PhD.
4. Participated in an International competition- "The Emerson Cup 2012- India and Southeast Asia" during B.Tech.
5. Presented a Paper in an International Colloquium on Youth WES Leadership conducted by Centre of Excellence for Change (CEC) and IIT MADRAS during B.Tech.
6. Won First Position at National level technical symposium "SHRISTI-12", in paper presentation at Hindustan University, Chennai during B.Tech.
7. Won Second Prize in 'Model Making' at National level technical symposium "SHRISTI-12", at Hindustan University, Chennai during B.Tech.

Membership of professional bodies

1. Member- International Geosynthetic Society.

Supervision of students (at Shri Mata Vaishno Devi University)

Degree	Guidance	Number Completed	Number in Progress
B.Tech.	Single	16	0

Workshops and Educational Trips Organized

1. 2-day workshop on "Application of Drones in Civil Engineering". 29/08/2022 to 30/08/2022.
2. 1-day Educational Trip to "Chenani- Nashri Tunnel" on 27/04/2022.
3. 1- day Educational Trip to "Jammu International Airport" on 31/08/2022.
4. 1- day Educational Trip to "Sangaldan Railway Station" on 14/09/2022.
5. 1- day event at the university level for the department of Civil Engineering(ADHARA).

Workshops and FDPs Attended

1. Journal Citation Report Certification Series-2022 by Clarivate (Certification ID- 463619).
2. Short term course on "Recent advances in Transportation Geotechnics and Infrastructure Development" organized by Indian Geotechnical Society, Jalandhar Chapter in association with Dr. B.R. Ambedkar National Institute of Technology, Jalandhar, Punjab- 2023.
3. 1st International (Virtual) Symposium on Geoethics organized by International Association Promotion of Geoethics (IAPG), India Chapter in collaboration with National Institute of Disaster Management (NIDM) and Amity University Haryana.
4. TEQIP III sponsored International Workshop on "Geohazards Risk Reduction Initiatives in South and South East Asia (GeoRisk-2019)" organized by Department of Civil Engineering, Delhi Technological University.

5. One week online Short-Term Training Programme on “Structural Audit for Earthquake Safety” jointly organized by National Institute of Disaster Management, Ministry of Home Affairs and Department of Civil Engineering, Delhi Technological University.
6. TEQIP III sponsored One Week Faculty Development Programme on “Disaster Mitigation and Management” organized by Department of Civil Engineering, Delhi Technological University with twinning partner MITS, Gwalior.
7. One-Week Online Faculty Development Program on “Ethics and Values in Technical Education in Context of National Education Policy-2020” organized by Centre for Value Based Education, Delhi Technological University, Delhi.
8. Five Day Faculty Development Program on “Emerging Trends in Civil Engineering” organized by Department of Civil Engineering, GATES Institute of Technology.
9. One-Week Online Faculty Development Program on “Engineering Contracts and Dispute Resolution” organized by Department of Civil Engineering, Sharada University.
10. International Webinar of “Health Monitoring, Service Life Prediction, Repair and Rehabilitation of Structures” organized by CSIR- Central Road Research Institute, New Delhi.