

FACULTY PROFILE



NAME : S. K. PRASAD

**Designation: Professor & Head
Department of Civil Engineering**

Date of Joining	01-06-2020
Length of Professional Experience	38 years

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Academic Background
<ul style="list-style-type: none">• Dr. Eng. in Civil Engineering from University of Tokyo, Japan (1996)• M. Tech. in Civil Engineering from Indian Institute of Technology, Kanpur (1985)• B.E in Civil Engineering from SJCE, University of Mysore, Mysore (1982)

Areas of Interest
<ul style="list-style-type: none">• Earthquake Geotechnical Engineering• Performance Based Design

Significant Publications

- Vijaykumar and S K Prasad (2023) "Attenuation of ground motion for Pile Raft foundation System subjected to machine vibration", International Journal of Advanced Civil Engineering & Technology Research (JACETR), Vol 12, Issue 1, 19/12/2022
- Vishwanth Gowda P C , Lubna K , Shivakumar M (2024), Ganesh M B1 and Prasad S.K., Influence of Terrazyme on moderately expansive Black Cotton Soil, Lecture Notes in Civil Engineering, LNCE, Volume 478, Springer, Singapore, <https://doi.org/10.1007-978-981-97-1745-3-25>, Editors: Jose BT, Sahoo DK, Shin EC, Choudhury D, Joseph A, Pai RR.
- Vijaykumar K., Prasad S.K. and Chethan L. (2024), Study on mechanism of load transfer in pile-raft foundation, Lecture Notes in Civil Engineering, LNCE, Volume 477, Springer, Singapore, <https://doi.org/10.1007-978-981-97-1741-5-13>, Editors: Jose BT, Sahoo DK, Shin EC, Choudhury D, Joseph A, Pai RR.
- Niranjana Nayaka RK, Muralidhar N and Prasad SK. (2024) 'Effect of overcrowding on seismic performance of elevation irregular medium height structures' ,Submitted a paper to Proceedings on Engineering Sciences, www.pesjournal.net on
- Pushpa K., Prasad S. K. and Nanjundaswamy P. (2023) 'Effect Of partially stabilized Backfill and Subsoil on The Seismic Performance of Quay Wall', Submitted to IGC 2023, Roorkee, December 14 – 16, 2023.
- Barnali Ghosh and Prasad S.K, (2023), 'Natural Frequency of Earth Dams by Analytical Solution', Submitted to IGC 2023, Roorkee, December 14 – 16, 2023.
- Pushpa K., Prasad S.K., Nanjundaswamy P. (2022) Assessment of Seismic Displacement of Quay Walls. In: Kolathayar S., Chian S.C. (eds) Recent Advances in Earthquake Engineering. Lecture Notes in Civil Engineering, vol 175. Springer, Singapore. https://doi.org/10.1007/978-981-16-4617-1_24, pp 291 – 299.
- Ghosh B., Prasad S.K. (2022) Seismic Response Study on Kaswati Dam. In: Kolathayar S., Chian S.C. (eds) Recent Advances in Earthquake Engineering. Lecture Notes in Civil Engineering, vol 175. Springer, Singapore. https://doi.org/10.1007/978-981-16-4617-1_22, pp 271 – 279.
- R. K. Niranjana and S. K. Prasad (2022) 'Seismic Performance of Open Ground Floor Tall Buildings on Flexible Ground', Dynamics of Soil and Modelling of Geotechnical Problems, Conference Proceedings of Indian Geotechnical Conference 2020, Volume 5, Editors, C. N. V. Satyanarayana Reddy, A. Murali Krishna and Neelima Satyam, pp 361 – 66, https://doi.org/10.1007/978-981-16-5605-7_32.
- Vishwanth Gowda P C, Lubna K, Shivakumar M, Ganesh M B and S K Prasad (2022) 'Influence of Terrazyme on moderately expansive black cotton soil', Proceedings of IGC 2022, GEOLEAP, Kochi, 15 – 17 Dec. 2022.
- Vijaykumar, S K Prasad & Chethan L., (2022) 'Study on mechanism of load transfer in pile-raft foundation', Proceedings of IGC 2022, GEOLEAP, Kochi, 15 – 17 Dec. 2022.
- Krupa H R & S K Prasad (2022) 'Study on mechanism of load transfer in pile-raft foundation', Proceedings of IGC 2022, GEOLEAP, Kochi, 15 – 17 Dec. 2022.
- Barnali Ghosh & S K Prasad (2022) 'Liquefaction Mitigation Measures for Weak Subsoil of Earthen Embankments', Proceedings of IGC 2022, GEOLEAP, Kochi, 15 – 17 Dec. 2022.
- Pushpa K, S K Prasad & Nanjundaswamy P. (2022) 'Effect of Ground Improvement on the Seismic Performance of Quay Wall', Proceedings of IGC 2022, GEOLEAP, Kochi, 15 – 17 Dec. 2022.
- Niranjana Nayak R K, S K Prasad and A J Krishnaiah (2022) 'Effect of Poor Soil Condition on Seismic Vulnerability of Overcrowded Building', Proceedings of IGC 2022, GEOLEAP, Kochi, 15 – 17 Dec. 2022.
- Vijaykumar and S K Prasad (2022) "Critical comparison of load carrying capacity of Pile, Raft and Pile-Raft foundation systems" TJPRC: journal of advanced civil engineering & technology research (TJPRC: JACETR); Vol - 12, Issue - 2; edition: Dec-2022.
- Vijaykumar and S K Prasad (2022) "Parametric Study of Pile-Raft foundation System Using PLAXIS-3D" Journal of Emerging Technologies and Innovative Research (ISSN : 2349-5162) JETIR (www.jetir.org) ISSN UGC Approved (Journal No: 63975) & 7.95 Impact Factor, Volume 9 Issue 5 , May-2022, Date of Publication: 17th May 2022.
- Ghosh B., Prasad S.K. (2022) Seismic Response Study on Kaswati Dam. In: Kolathayar S., Chian S.C. (eds) Recent Advances in Earthquake Engineering. Lecture Notes in Civil Engineering, Vol 175. Springer, Singapore. https://doi.org/10.1007/978-981-16-4617-1_22, pp 271 – 279.
- Pushpa K., Prasad S.K., Nanjundaswamy P. (2022) Assessment of Seismic Displacement of Quay Walls. In: Kolathayar S., Chian S.C. (eds) Recent Advances in Earthquake Engineering. Lecture Notes in Civil Engineering, vol 175. Springer, Singapore. https://doi.org/10.1007/978-981-16-4617-1_24, pp 291 – 299.
- R. K. Niranjana and S. K. Prasad (2021) 'Seismic Performance of Open Ground Floor Tall Buildings on Flexible Ground', Dynamics of Soil and Modelling of Geotechnical Problems, Conference Proceedings of Indian Geotechnical Conference 2020, Volume 5, Editors, C. N. V. Satyanarayana Reddy, A. Murali Krishna and Neelima Satyam, pp 361 – 66, https://doi.org/10.1007/978-981-16-5605-7_32.
- Krupa H. R. and Prasad S. K. (2021) Influence of Excavation Phase on the Performance of Soil Nail System. In: C. N. V. Satyanarayana Reddy Sireesh Saride A. Murali Krishna (eds) Proceedings of the Indian Geotechnical Conference 2020. Lecture Notes in Civil Engineering, Vol 152. Springer, Singapore, Soil Structures, Lecture Notes in Civil Engineering 152, https://doi.org/10.1007/978-981-16-1831-4_50, pp

- Ramesh S., Suman R.V., Yashwanth M., Prasad S.K. (2021) Evaluation of Bearing Capacity of Ground in Transition Zone. In: Patel S., Solanki C.H., Reddy K.R., Shukla S.K. (eds) Proceedings of the Indian Geotechnical Conference 2019. Lecture Notes in Civil Engineering, vol 133. Springer, Singapore. https://doi.org/10.1007/978-981-33-6346-5_39
- Ghosh B., Prasad S.K. (2021) Seismic Response Analysis of Earth Dam Using PLAXIS. In: Patel S., Solanki C.H., Reddy K.R., Shukla S.K. (eds) Proceedings of the Indian Geotechnical Conference 2019. Lecture Notes in Civil Engineering, vol 138. Springer, Singapore. https://doi.org/10.1007/978-981-33-6564-3_39
- Krupa H.R. and Prasad S.K.(2020), 'Influence of Nail Fixity to Facing on the Performance of Soil Nail System', International Journal of Engineering Research and Technology, IJERT, Volume 9, Issue 8, August – 2020, pp. 805-810, IJERTV9IS080337 www.ijert.org, DOI : <http://dx.doi.org/10.17577/IJERTV9IS080337>
- Prasad, S.K., "Earthquake Disaster Management in different countries – Influence of culture of region", International Journal 'Dharana' published by M.P. Birla Institute of Management, Bangalore, Vol 9, No. 1, Jan – June, 2015, pp 29 – 36, ISSN 0974-0082.
- Prasad, S.K., N. M. Jagadeesh and C. N. Yadunandan, 'Case studies on failure of retaining walls', i-manager's Journal on Structural Engineering, Vol. 3, No. 2, June - August 2014, pp. 29-34, <http://www.imanagerpublications.com/>.
- Vijayendra, K.V., Sitaram Nayak and Prasad, S.K., "An alternative method to estimate fundamental period of layered soil deposit", Technical Note, Indian Geotechnical Journal, July 2014, DOI 10.1007/s40098-014-0121-7, Print ISSN 0971-9555, Online ISSN 2277-3347, Publisher Springer India.
- Prasad, S.K., Srikanta Prasad, S. and Suresh, G.S., "Seismic Capacity of frames designed for Earthquake, Wind and Gravity Loadings", International Journal of Earth Science and Engineering, , ISSN 0974 – 5904, Cafet- Innova Technical Society, India, Vol. 6, No. 4, pp667 – 672, Aug 2013.
- Prasad, S.K., Towhata, I. Chandradhara, G. P. and Nanjundaswamy, P., "Shaking Table Tests In Earthquake Geotechnical Engineering" Current Science, Vol. 87, No. 10, pp 1398-1404, Nov 2004.
- Towhata, I., Prasad, S.K., Tsuyoshi Honda and Chandradhara, G. P., "Geotechnical Reconnaissance study on damage caused by 2001 Gujarat earthquake, India", Soils and Foundations, Vol. 42, No. 4, pp 77 – 88, August 2002.
- Towhata, I., Ghalanderzadeh, A., Prasad, S.K., and Vargas, W. 'Dynamic failure of subsoils observed in waterfront areas', Soils & Foundations, Special issue on geotechnical aspects of Hyogoken-Nanbu earthquake, pp 149-160, 1996.
- Prasad, S.K., Vijayendra K.V. and Sitaram Nayak, "Issues on Seismic Site Characterization", Frontiers in Geotechnical Engineering, Editor Latha Gali Madhavi, Springer, February 2019, pp 217 – 248, ISBN 978-981-13-5871-5.

Achievements

- Secured First Rank in B.E. to University of Mysore and was awarded Four Gold Medals in Six Cash Prizes from the university
- Member of Executive Council of Indian Geotechnical Society, New Delhi
- Performance auditor to TEQIP Institutions for MHRD, New Delhi.
- Fellow of Tamasek – National University of Singapore Foundation in Sept 2015
- Member of Technical Committee TC 203 'Geotechnical Hazards & Earthquake related problems' of International Society of Soil Mechanics & Geotechnical Engineering.
- Coordinated TEQIP – II (a world bank assisted Government of India project) at SJCE, Mysuru and successfully utilized Rs. 1600 Lakhs for implementing procurement, interaction with industry, R & D and other academic activities.
- Handled several research projects from AICTE and DST.
- Won many best paper and best M.Tech thesis guidance awards.
- Delivered Fifth Madhav Lecture Series of Indian Geotechnical Society Hyderabad Chapter at JNTU Hyderabad on 1st October 2016 with a recognition as "Outstanding performer in the field of Geotechnical Engineering".
- Honoured by Institution of Engineers (India) Mysore Center during the 51st Engineers day celebrations as "Outstanding achiever in Civil Engineering" in Sept, 2018.
- Delivered the prestigious 27th Prof. B.K Ramaiah Lecture at IISc, Bangalore on 29th March 2019 under IGS Bangalore Chapter.
- Felicitated by Sanathana Sampratishtana and Bhamy's foundation during teachers day celebrations on 5th October 2021
- Elected to National Executive Committee of Indian Geotechnical Society as member for the term 2023-24.
- Elected as Chairman of IGS Mysuru Chapter for the term 2023-24.
- Elected to Management Committee of ACCE(I) Mysore Centre for the term 2023-24.
- At IGS, hold important responsibilities of being Chair of improving membership, member of finance committee, member of selection committees for best Ph.D thesis, best teacher in Geotechnical Engineering, best technical paper etc.
- Invited by AICTE to be one of the members of expert committee in preparing the guidelines for AICTE Doctoral Fellowship for 2023 admissions.
- Delivered an invited lecture on 'Seismic Performance of Foundations' at Georgia Institute of Technology, Atlanta USA on 25/08/2023.

Membership to Professional Bodies

1. Member of Academic Council (VVCE)
2. Member of Board Studies in Civil Engineering (VTU, Belagavi)
3. Member of Board Studies in Civil Engineering (BMSCE, Bengaluru)
4. Member of Board Studies in Civil Engineering (NIE, Mysuru)
5. Member of Board Studies in Civil Engineering (SJCE, JSSSSTU, Mysuru)
6. Member of Board Studies in CTM (SJCE, JSSSSTU, Mysuru)
7. Member of Board Studies in Civil Engineering (BIET, Davanagere)
8. Chairman, Indian Geotechnical Society, Mysuru Chapter
9. Management Committee Member, ACCE(I), Mysore Center
10. All India Council for Technical Education, Member, Doctoral Fellowship Revision Committee
11. All India Council for Technical Education, Member, All India Board of Under-Graduate Studies in Engineering & Technology
12. Member, National Executive Council, Indian Geotechnical Society
13. Coordinator, Strategic Planning for Infrastructure of our institution