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Employment History

- 2016 -2017 ■ **Lecturer.** National Institute of Technology Srinagar JK India.
- 2022 – Till Date ■ **Assistant Professor.** Islamic University of Science and Technology Awantipora JK India.


Education

- 2017 – 2022 ■ **Ph.D. National Institute of Technology Srinagar.**
Thesis title: *A Study on Rutting and Fatigue Performance of Nano Modified Asphalt Binders and Mixes.*
- 2013 – 2015 ■ **M.Tech. Highway Technology, Visvesvaraya Technological University**
- 2009 – 2013 ■ **B.E Civil Engineering, Visvesvaraya Technological University**

Research Publications

Journal Articles





- 1 F. S. Bhat and M. S. Mir, "A study investigating the influence of nano al₂O₃ on the performance of sbs-modified asphalt binder," *Construction and Building Materials*, vol. 271, [DOI](https://doi.org/10.1016/j.conbuildmat.2020.121499): <https://doi.org/10.1016/j.conbuildmat.2020.121499>.
- 2 F. S. Bhat and M. S. Mir, "Evaluating the rheological performance of bituminous binder containing nano al₂O₃," *Journal of Materials in Civil Engineering(ASCE)*, vol. 34, [DOI](https://doi.org/10.1061/(ASCE)MT.1943-5533.0004088): [https://doi.org/10.1061/\(ASCE\)MT.1943-5533.0004088](https://doi.org/10.1061/(ASCE)MT.1943-5533.0004088).
- 3 F. S. Bhat and M. S. Mir, "Investigating the effects of nano al₂O₃ on high and intermediate temperature performance properties of asphalt binder," *Road Materials and Pavement Design*, vol. 22, [DOI](https://doi.org/10.1080/14680629.2020.1778509): <https://doi.org/10.1080/14680629.2020.1778509>.
- 4 F. S. Bhat and M. S. Mir, "Investigating the performance of nano-modified asphalt binders incorporated with warm mix additives," *Journal of Materials in Civil Engineering(ASCE)*, vol. 33, [DOI](https://doi.org/10.1061/(ASCE)MT.1943-5533.0003943): [https://doi.org/10.1061/\(ASCE\)MT.1943-5533.0003943](https://doi.org/10.1061/(ASCE)MT.1943-5533.0003943).
- 5 F. S. Bhat and M. S. Mir, "Performance evaluation of nanosilica-modified asphalt binder," *Innovative Infrastructure Solutions*, vol. 4, [DOI](https://doi.org/10.1007/s41062-019-0249-5): <https://doi.org/10.1007/s41062-019-0249-5>.
- 6 F. S. Bhat and M. S. Mir, "Rheological investigation of asphalt binder modified with nanosilica," *International Journal of Pavement Research and Technology*, vol. 14, [DOI](https://doi.org/10.1007/s42947-020-0327-2): <https://doi.org/10.1007/s42947-020-0327-2>.
- 7 F. S. Bhat and M. S. Mir, "Study investigating the influence of warm-mix asphalt additives on rutting and fatigue," *Transportation Research Record*, vol. 2676, [DOI](https://doi.org/10.1177/03611981211064995): <https://doi.org/10.1177/03611981211064995>.
- 8 F. S. B. et.al, "Integration of nano al₂O₃ and nano sio₂ in asphalt mixes: A comprehensive performance and durability evaluationg," *Construction and Building Materials*, [DOI](https://doi.org/10.1016/j.conbuildmat.2023.134687): <https://doi.org/10.1016/j.conbuildmat.2023.134687>.

- 9 F. S. B. Ishfaq Mohi ud Din and M. S. Mir, "A study investigating the impact of waste cooking oil and waste engine oil on the performance properties of rap binders," *Road Materials and Pavement Design*, vol. 24,  DOI: <https://doi.org/10.1080/14680629.2021.2002182>.

Conference Proceedings


- 1 F. S. Bhat and M. S. Mir, "Rutting characteristics of asphalt binders modified with nanosilica and warm mix additive," 5th Conference of Transportation Research Group of India, 2019.
- 2 F. S. Bhat, "Bus stop spacing optimization for public transport vehicles," 3rd National Conference on Futuristic Technology in Civil Engineering for Sustainable Development, 2015.

Skills






Languages	 Strong reading, writing and speaking competencies for English, Urdu, Hindi and Kashmiri.
Coding and Softwares	 C, C++, Python, R, Latex, SPSS , openLCA.
Peer Review.	 Construction and Building Materials, Journal of Materials in Civil Engineering, International Journal of Pavement Engineering, Environmental Science and Pollution Research, International Journal of Pavement Research and Technology, Energy and Fuels.
Misc.	 Academic research, teaching, training, consultation, typesetting and publishing.

Achievements, Projects and Engagements

Awards and Achievements

- 2015  **Best Paper Award**, Awarded best paper at the 3rd National Conference on Futuristic Technology in Civil Engineering for Sustainable Development.

Training/Workshop/Seminar

-  **DSR and Bitumen- What can go wrong ?** Organized by Transportation Research Group of India.
-  **Asphalt Materials Characterization: Trends and Challenges** . Organized by NCAT.
-  **Asphalt Materials Characterization: Trends and Challenges**. Organized by NCAT.
-  **Balanced Mix Design**. Organized by NCAT.
-  **Short-Term Course on Machine Learning and its Applications to Civil Engineering** .

Projects Undertaken

-  Safety Audit for National Highway -44
-  Preparation and Evaluation of DPR's for State agencies, which includes conducting traffic surveys, geometric design, and pavement design of highways.