CURRICULUM VITAE

Dr. JAYAKESH K B.E, M.Tech Ph.D.

Academic Records:

Class	University	Institution	Year of Passing
Ph.D. (Civil Engineering) (Transportation Engineering)	NITK	National Institute of Technology Karnataka, Surathkal.	2019
M.Tech (Transportation System Engineering)	NITK	National Institute of Technology Karnataka, Surathkal.	2013
B.E (Civil Engineering)	Visvesvaraya Technological University (VTU)	Sir M Visvesvaraya Institute of Technology, Bengaluru, Karnataka	2011

Areas of Research Interest

Composite pavements.

Highway pavement management system.

Design of low and high-volume highway pavements.

Characterization road materials and design of road mixes and structures.

Road safety and traffic management.

Work Experience

Worked as Assistant Professor in the Department of Civil Engineering, **GITAM University**, Bengaluru, (**6 months)**.

Worked as Assistant Professor in the Department of Civil Engineering, **SMVITM**, Bantakal, D.K, Karnataka, **(1 year).**

Worked as Assistant Professor in the Department of Civil Engineering, **Amrita Vishwa Vidyapeetham, Coimbatore,** Tamil Nadu, **(2.5 years).**

Working as Assistant Professor in the Department of Civil Engineering, **National Institute of Technology Arunachal Pradesh**, Jote, from **11-08-2022 to till date**.

Ph.D. Thesis:

Thesis Title: "Experimental Studies on Interface Bond Strength of Ultra-Thin Whitetopping Pavements under Static and Dynamic Loading Conditions"

M.Tech Thesis:

Project Title: "Experimental Study on Mechanical Properties and Fatigue Behavior of Flyash-GGBS Based Geopolymer Concrete under Ambient Curing Condition Incorporating Dredged Sand as Fine Aggregates"

B.E Project:

Project Title: "Analysis and Design of Green Buildings in Micro-Unit"

Short Term Courses / Training:

- Undergone Industrial Training for 2 months in Wilbur Smith Pvt Ltd, Bengaluru.
- One Week Training on AICTE-STTP, 1st Feb 2016 to 6th Feb 2016, IIT-Madras.
- One Week Short Term Course on GIAN Course- Engineering Analysis and Design of Rigid Pavements, 25th July 2016 to 29th July 2016, NITK.

Workshops Attended

- National Workshop on "Warm Mix Asphalt - Challenges and Way Forward" from Aug 8-2013 to Aug 9-2013, IIT-Madras.
- International Workshop on "Civil Infrastructure and Structural Materials" from July 28-2014 to July 29-2014, NITK, Surathkal.
- National Workshop on "Mitigation of Road Disaster" from Sep 15-2014 to Sep 17-2014, NITK, Surathkal.
- National Workshop on "Intellectual Property Rights" Sep 1-2016, NITK, Surathkal.
- National Workshop on "Sustainable Urban Transportation" Oct 3-2016, NITK, Surthkal.
- National Workshop on "Development of Warrants for Use of Modified Binders for Improved Performance of Flexible Pavements" Oct 24-25, 2016, IIT-Madras.
- National Workshop on "Development of Laboratory Instruction Manual" Feb 4 to 8, 2019, SMVITM, Bantakal.

Publication in International Journal

- **K Jayakesh** and S N Suresha, (2017). "Experimental Investigation of Interface Treatment Technique on Interface Shear Bond Fatigue Behavior of Ultra-Thin Whitetopping". International Journal of Construction and Building Materials. **https://doi.org/10.1016/j.conbuildmat.2017.11.057.**
- Gireesh Mailar, Sujay Raghavendra N, Sreedhara B.M, Manu D.S, Parameshwar Hiremath, and K Jayakesh, (2016). "Investigation of concrete produced using recycled aluminum dross for hot weather concreting conditions". International Journal of Resource-Efficient Technologies, pp. 68-80. **https://10.1016/j.reffit.2016.06.006**.
- Sujay Raghavendra Naganna, K Jayakesh, Anand V R, (2020) "Nano-TiO2 particles: A photocatalytic admixture to amp up the performance efficiency of cementitious composites", International Journal of Innovative Infrastructure Solutions. **https://doi.org/10.1007/s12046-020-01515-x.**

Publication in International Conference

- **K Jayakesh** and S N Suresha "Experimental Analysis of Interface Shear Fatigue Performance of Ultra-Thin Whitetopping**".** International Conference on Highway Pavements and Airfield Technology, 27th to 30 Aug 2017, **ASCE, Philadelphia**, **U.S**. **https://doi.org/10.1061/9780784480939.025**.
- Vijayan, V., **Jayakesh, K**., & Anand, K. B. (2022). Mechanical properties of recycled aggregates concrete with sisal fiber and silica fume. Materials Today: Proceedings. https://doi.org/10.1016/j.matpr.2022.05.055.
- Nambiar, A. M., & **Jayakesh, K**. (2021, May). Analysis of Interface Bond Strength for Thin-Whitetopping Pavements Using Finite Element Method. In International Conference on Structural Engineering and Construction Management (pp. 619-630). Springer, Cham. https://doi.org/10.1007/978-3-030-80312-4_52.

Publication in National Conference

- **Jayakesh K,** Parameshwar Hiremath, Sharan Kumar and Sujay Raghavendra N, (2016). "Investigation of Mechanical Properties of Concrete Replaced with Bottom Ash". Proceedings of National level Conference on Advanced Trends in Civil Engineering and Sustainable Development, 26th – 27th Feb 2016, MITE, Moodbidri, Karnataka.
- Kuchipudi Jaya Rao, Siva Sarja and **Jayakesh K**, (2019). "Effect of Lime and Alkali Activated fly ash on Black Cotton Soil Stabilization". Proceedings of National level Conference on Emerging Trends in Science and Engineering, 25th - 27th April 2019, SMVITM, Karnataka.

Funded Project:

- **Co-PI in DST-FIST program 2021 (TPN – 69670) – SR/FST/ET-1/2021/925 – 80 lakhs**.

Membership of Professional Bodies:

- The Institute of Engineers (India), **Associate Member** (Membership No: AM151180-5)
- Indian Concrete Institute, **Member** (Membership No: 12739)
- American Society of Civil Engineers (USA) (Membership No: 9792582)