

Faculty Profile

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About me:

Jayanth K | Assistant Professor, NIE Mysore | Ph.D., Civil Engineering (VTU, 2024)

Expertise: Structural Engineering, Steel Fibre-Reinforced Concrete (SFRC), Finite Element Analysis, RC Design. Proficient in ANSYS, STAAD Pro, and AutoCAD.

Positions Held: Assistant Professor at NIE Mysore (2021–present) and VVIET Mysore (2011–2019); Trainee Engineer at B L Kashyap & Sons, Chennai.

Research Area: Behaviour of Steel Fibre-Reinforced Concrete (SFRC) under monotonic and repeated cyclic stress

Publications: 6 peer-reviewed journal articles (Structures, Innovative Infrastructure Solutions, Archives of Civil & Mechanical Engineering) and 5 conference papers (Springer LNCE).

Awards & Recognitions:

NPTEL certifications in RC Design & Engineering Teaching; Certificate of Distinction — Effective Teaching Learning (IUCEE); Certificate of completion of IUCEE International Educators Certificate Program (IIECP).

Qualification:

B.E. (PESCE, VTU), MTech (MSRIT, VTU), Ph.D. (VTU, Belagavi)

Courses Taught:

UG courses: Engineering Mechanics, Strength of Materials, Structural Analysis, Design of RC Structures, Design of Steel Structures

PG courses: Structural Dynamics, Earthquake Resistant Design of Structures, Structural Mechanics, Finite Element Analysis

Publications:

Journal Publications

[1] **Jayanth K** and G. S. Suresh, "Steel fibre reinforced concrete (SFRC) under repeated slow cyclic loading in compression - Experimental and Theoretical Studies," Structures (Elsevier), vol. 78, Aug. 2025. doi: <https://doi.org/10.1016/j.istruc.2025.109303>

- [2] **Jayanth K** and G. S. Suresh, "Steel fibre reinforced concrete (SFRC) under repeated slow cyclic loading in tension - Experimental and Theoretical Studies," *Innovative Infrastructure Solutions* (Springer), vol. 10, pp. 228, 2025. doi: <https://doi.org/10.1007/s41062-025-02029-3>
- [3] P. B. Bhavish Bhat, T. M. Swaroop, **K Jayanth**, and B. O. Naveen, "Experimental studies and non-linear finite element analysis of flexural behavior of steel fibre-reinforced concrete under monotonic and repeated cyclic loading," *Discover Civil Engineering* (Springer), vol. 1, no. 1, pp. 61, 2024. doi: <https://doi.org/10.1007/s41062-024-01594-3>
- [4] **K Jayanth**, G. S. Suresh, and M. N. Shesha Prakash, "Studies on the behaviour of steel fibre reinforced concrete under monotonic and repeated cyclic stress in tension," *Innovative Infrastructure Solutions* (Springer), vol. 9, no. 7, pp. 274, 2024. doi: <https://doi.org/10.1007/s41062-024-01594-3>
- [5] **K Jayanth**, M. N. Shesha Prakash, G. S. Suresh, and B. O. Naveen, "Studies on the behaviour of steel fibre-reinforced concrete under monotonic and repeated cyclic stress in compression," *Archives of Civil and Mechanical Engineering* (Springer), vol. 22, no. 1, pp. 50, 2022. doi: <https://doi.org/10.1007/s43452-021-00371-8>
- [6] **K Jayanth** et al., "Analysis and Design of Reinforced Earth Bed for a Godown Structure," *International Journal for Engineering Science and Management*, vol. VIII, no. 1, 2018.

Conference Proceedings

- [1] P. B. Bhavish Bhat and **K Jayanth**, "Studies on the Behavior of Steel Fibre-Reinforced Concrete (SFRC) Under Monotonic Loading in Flexure: A Systematic and Simplified Finite Element Model for Assessing the Structural Performance," in *Proc. Int. Conf. on Interdisciplinary Approaches in Civil Engineering for Sustainable Development (IACESD 2023)*, *Recent Advances in Structural Engineering, Lecture Notes in Civil Engineering*, vol. 455, Springer, Singapore, 2023. doi: https://doi.org/10.1007/978-981-99-9502-8_11
- [2] M. S. Sunagar, B. O. Naveen, and **K Jayanth**, "Dynamics Analysis of Steel Framed Structure Under Different Damage Scenarios," in *Proc. Int. Conf. on Sustainable Infrastructure: Innovation, Opportunities and Challenges (SIIOC 2023)*, *Technologies for Sustainable Buildings and Infrastructure, Lecture Notes in Civil Engineering*, vol. 528, Springer, Singapore, 2023. doi: https://doi.org/10.1007/978-981-97-4844-0_29
- [3] **K Jayanth**, G. S. Suresh, and M. N. Shesha Prakash, "Compressive Behaviour of Steel Fibre-Reinforced Concrete Under Monotonic Loading," in *Proc. National Web Conf. on Challenges and Innovation in Engineering & Technology*, Ramco Institute of Technology, Rajapalyam, 2021.
- [4] **K Jayanth**, G. S. Suresh, and M. N. Shesha Prakash, "Compressive Behaviour of Steel Fibre-Reinforced Concrete Under Repeated Loading," in *Proc. National Web Conf. on Challenges and Innovation in Engineering & Technology*, Ramco Institute of Technology, Rajapalyam, 2021.
- [5] **K Jayanth** and T. Valsa Ipe, "Non-linear Analysis of Cold Formed Steel-Concrete Composite Beams - Finite Element Approach," in *Proc. National Conf. on Challenges in Research and Technology in the Coming Decades*, SDMIT, Ujire, 2013.

Book Chapters

- [1] M. S. Sunagar, **K. Jayanth**, and B. O. Naveen, "Study on Effect of Damage Location and Severity on Dynamic Behavior of Multistorey Steel Framed Structure," in Industry 4.0 with Modern Technology, 1st ed. CRC Press, 2024. doi: <https://doi.org/10.1201/9781003450924-17>

Other achievements:

1. Actively involved in coordinating the activities and programs under NIE-Teaching Learning Centre (TLC)
2. Actively involved in coordinating and participating in the activities and programs of Indo Universal Collaboration for Engineering Education (IUCEE).
3. Actively involved in interacting with industries for internship opportunities.
