



## Contact

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### Websites

YouTube:  
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### Google Scholar:

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## Dr. Harish B A

Assistant Professor in Civil Engineering

### Faculty

Faculty of Engineering and Technology

### School / Program

Faculty of Engineering and Technology

B.Tech. in Civil Engineering

### Faculty Introduction

Dr. Harish B A is an accomplished academician and researcher in Civil Engineering with over 12 years of teaching and research experience at GM Institute of Technology, Davangere. He specializes in structural engineering, recycled aggregate concrete, and the use of advanced analysis tools such as ETABS, SAFE, and SAP2000. His doctoral research focused on the performance of recycled aggregate concrete two-way slabs with different fibers under punching shear. Dr. Harish is also active in publishing and has contributed numerous papers to reputed Scopus-indexed journals.

### Qualifications

#### Ph.D. (Civil Engineering)

Visvesvaraya Technological University, Belgaum (2022)

Thesis: “Performance of Recycled Aggregate Concrete Two-Way Slabs with Different Fibers under Punching Shear.”

#### M. Tech. (Computer-Aided Design of Structures)

Visvesvaraya Technological University, Belgaum (2013)

#### BE (Civil Engineering)

Kuvempu University, Shankaraghata (2011)

### Experience

#### Teaching

- Assistant Professor – GM University, Davangere (Feb 2025 – Present) – 09 months.
- Assistant Professor – GM Institute of Technology, Davangere (Aug 2013 – Feb 2025) – 11 years 7 months.

#### Industry

- CSIR-SERC (Chennai) – Project on “Experimental and Finite Element Analysis of Funicular Shells” (Jan – July 2013)

#### Research

- Recycled Aggregate and Fiber-Reinforced Concrete
- Punching Shear Behavior of Two-Way Slabs
- Finite Element Modeling and Structural Analysis



(ETABS, SAFE, SAP2000)

- Sustainable and Eco-Friendly Construction Materials
- Non-Destructive Testing of Concrete Structures

#### **Training Program Attended**

- FDP on “Software Application Laboratory,” DSATM Bengaluru, Jan 2018.
- Online Internship on “CYPE Software,” FE-Designs Bengaluru.
- Training on “Ultrasonic Pulse Velocity Meter (NDT),” Roop Telsonic Ultrasonix Ltd.

#### **Research Interest**

- Recycled Aggregate Concrete
- Fiber - Reinforced Concrete
- Structural Analysis and Design
- Finite Element Modeling
- Non-Destructive Testing of Concrete

#### **Awards & Achievements**

- Ph.D. awarded (Aug 2022)
- Patent Design Accepted (2023)
- Over 226 Google Scholar Citations | h-index: 7 | i10-index: 5

#### **Publication / Patents**

Ph.D. Dissertation:

- Performance of Recycled Aggregate Concrete Two-Way Slabs with Different Fibers under Punching Shear.

Books:

- Performance of Recycle Aggregate Concrete Two-Way Slabs (LAP Lambert Academic Publishing, ISBN 978-620-6-14362-8)
- Techniques to Improve Resistance against Physical Sulphate Attack (LAP Lambert Academic Publishing, ISBN 978-620-6-76623-0)

International Conference/Journal Papers:

- 1) Hanumesh B. M., Harish B. A., Swapna Channagoudar – “Evaluating the Optimal Alccofine-1203 Replacement Ratio in M20 Grade Concrete,” Journal of Polymer and Composites, Vol. 13(04), pp. 294–299, 2025.
- 2) B. A. Harish, B. M. Hanumesh, N. Venkata Ramana, K. Gnaneswar – “Mechanical properties of recycled coarse aggregate concrete incorporating steel and glass fibre,” Elsevier – Materials Today Proceedings, Available online 18 April 2023.
- 3) B. A. Harish, B. M. Hanumesh, N. Venkata Ramana, K. Gnaneswar – “Assessment of mechanical properties of recycled coarse aggregate concrete incorporating basalt and polypropylene fiber,” Elsevier – Materials Today Proceedings, Available online 11 July 2023.

- 4) B. A. Harish, N. Venkata Ramana, K. Gnaneswar – “Experimental and analytical studies on recycled coarse aggregate concrete,” Elsevier – Materials Today Proceedings, Vol. 46 (Part 1), pp. 294–300, 2021.
- 5) B. A. Harish, N. Venkata Ramana, K. Gnaneswar – “A Study on properties of recycled coarse aggregate and its concrete,” IOP Conference Series: Materials Science and Engineering, Vol. 998, 3rd International Congress on Advances in Mechanical Sciences, Hyderabad, 2020.
- 6) B. M. Hanumesh, B. A. Harish, N. Venkata Ramana – “Influence of Polypropylene Fibres on Recycled Aggregate Concrete,” Elsevier – Materials Today Proceedings, Vol. 5 (1, Part 1), pp. 1147–1155, 2018.
- 7) B. K. Varun, Harish B. A., Y. B. Bharatharaj Etigi, Kiran Kumar H. S., Hanumesh B. M. – “Effect of Red Mud and Silica Fume on Cement Concrete in the Fresh and Hardened State,” IJRASET, Vol. 6 (12), 2018.
- 8) Siddesh T. M., Harish B. A., Sanjay S. J., Hanumesh B. M. – “Finite Element Modelling of Rectangular Funicular Shell Using SAP 2000,” IJESET, Vol. 9 (5), pp. 191–207, May 2017.
- 9) Harish B. A. – “An Experimental Study on Silica Fume Concrete with Addition of Glass Fiber,” IJETAE, Vol. 7 (5), May 2017.
- 10) Harish B. A., Hanumesh B. M., Siddesh T. M., Siddhalingesh B. K. – “An Experimental Investigation on Partial Replacement of Cement by Glass Powder in Concrete,” IRJET, Vol. 3 (10), Oct 2016.
- 11) Harish B. A., Hanumesh B. M., Siddesh T. M., Siddhalingesh B. K. – “An Experimental Study on the M20 Grade Cement Concrete Containing Crimped Steel Fibers,” IJSTE, Vol. 3 (3), Sept 2016.
- 12) B. K. Varun, Harish B. A., Hanumesh B. M. – “The mechanical properties of concrete incorporating quarry dust and foundry sand as partial and complete replacement for fine aggregate,” IJETAE, Vol. 6 (9), Sept 2016.
- 13) Siddesh T. M., Harish B. A., Dr. K. Manjunatha – “Finite Element Analysis of Funicular Shells with Rectangular plan ratio 1:0.7 under Uniformly Distributed Load Using SAP-2000,” IOSR-JMCE, Vol. 13 (5), pp. 110–115, Sept–Oct 2016.
- 14) Siddesh T. M., Harish B. A., Dr. K. Manjunatha – “Finite Element Analysis of Funicular Shells with Rectangular plan ratio 1:0.7 under Concentrated Load Using SAP 2000,” IRJET, Vol. 3 (9), Sept 2016.
- 15) Harish B. A., N. Venkata Ramana, K. Manjunatha – “Finite Element Analysis of Doubly Curved Thin Concrete Shells,” IJESIT, Vol. 5 (5), Sept 2015.
- 16) P. Sivakumar, K. Manjunatha, Harish B. A. – “Experimental and FE Analysis of Funicular Shells,” IJEIT, Vol. 4 (9), Mar 2015.
- 17) Hanumesh B. M., B. K. Varun, Harish B. A. – “The mechanical properties of concrete incorporating silica fume as partial replacement for cement,” IJETAE, Vol. 5 (9), Sept 2015.



- **ISTE:** LM 108247
- **IEAE:** IEAE 2017046

#### **Awards & Recognitions**

- Ph.D. awarded (Aug 2022)
- Patent Design Accepted (2023)
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#### **Administrative Responsibilities**

- Academic coordination and lab management
- Involved in curriculum development and research guidance activities

#### **Workshops / FDPs / Seminars Attended**

- AICTE-VTU Joint Training Program on “Teaching Techniques in the Analysis of Determinate Structures,” VTU-HRDC, Jan 2020.
- Workshop on “Research Methodologies and LaTeX,” VTU E-Learning Centre, Mysuru, Jun 2019.

#### **Workshops / FDPs / Seminars Organized**

- Resource Person in the Continuing education Programme (CEP-2025) on “Failure of Structures & its Cause & Restoration of Structures” held from 21<sup>st</sup> July 2025 to 25<sup>th</sup> July 2025 at Department of Studies in Civil Engineering, UBDTCE, Davanagere, for delivering the lectures on “Structural Condition Assessment through NDT” (Dt: 21/07/2025)

#### **Projects Guided**

- Guided numerous Undergraduate (UG) and Postgraduate (PG) students in the Department of Civil Engineering, with project work primarily focused on Recycled Aggregate Concrete, Fiber-Reinforced Concrete, and Structural Modeling using advanced software such as ETABS and SAFE.

#### **Funded Projects / Grants Received**

#### **Any Other Contributions**

- Civil Consultancy works