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GM UNIVERSITY

P. B. Road, Davanagere – 577 006 KARNATAKA | INDIA



## Contact

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## Websites

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[www.youtube.com/@Dr\\_Hanumesh\\_Bavikatte](https://www.youtube.com/@Dr_Hanumesh_Bavikatte)

## Dr. Hanumesh B M

Assistant Professor in Civil Engineering

### Faculty

Faculty of Engineering and Technology

### School / Program

School of Engineering/

B.Tech. in Civil Engineering

### Faculty Introduction

Dr. Hanumesh B M is an accomplished academic and researcher in the field of Civil Engineering. His expertise lies in concrete technology, fibre-reinforced concrete, recycled aggregate concrete, and the structural behaviour of slabs. He holds a Ph.D. in Civil Engineering Sciences and has contributed significantly to research on sustainable construction materials and innovative structural designs, with numerous publications in reputed international journals and conferences.

## Qualifications

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

Visvesvaraya Technological University – Belagavi, Karnataka, 2023

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

Visvesvaraya Technological University – Belagavi, Karnataka, 2016

### BE (Civil Engineering)

Visvesvaraya Technological University – Belagavi, Karnataka, 2014

## Experience

### Teaching

- 2 Years at GM University, Davanagere.
- 5 Years at GM Institute of Technology, Davanagere.
- 2 Years at S.T.J Institute of Technology, Ranebennur, Haveri.

### Industry

- 5 Months at NASHANTO Consulting Civil Engineers, Bengaluru.

### Research

- Fibre Reinforced Polymer bars



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#### Training Program Attended

- Participated in Three-Day Workshop on “Research Methodologies & LaTeX” organized by VTU e-Learning Centre, Mysuru from 19<sup>th</sup> to 21<sup>st</sup> June 2019 at DBIT, Bengaluru.
- Participated in three days FDP on, “Total Station and E-Surveying” at GMIT from 2<sup>nd</sup> to 4<sup>th</sup> April 2019.
- Conducted Hands on workshop on “Total Station and E-Surveying” at GMIT on 22<sup>nd</sup> March 2019.
- Workshop on “New Model Curriculum for First Year BE/B.Tech-CBCS Detailed Syllabus (2018-19) as per Outcome-Based Education (OBE) format including Course Outcomes (CO) and Bloom’s Taxonomy” under TEQIP-1.3, on 17<sup>th</sup> May 2018 at VTU, Belagavi.

#### Research Interest

- Fibre Reinforced Concrete
- FRP bars in concrete
- Alternative cementitious materials in concrete
- Recycled Aggregate Concrete

#### Awards & Achievements

- “Apparatus and Methods for filling pit”, Application Number: 202241012814 (Indian Patent).
- Young Achiever Award 2020 by InSc for publication of paper in scopus indexed journal.

#### Publication / Patents

- **Ph.D. Dissertation:** Behaviour of Hybrid Reinforced Two Way Slabs
- **Books:**
  - Performance of Recycle Aggregate Concrete Two-Way Slabs (LAP Lambert Academic Publishing, ISBN 978-620-6-14362-8)
- **National Conference Papers:**
  - “Polypropylene Fibre Reinforced Recycled Aggregate Concrete”, NCETERM-2016 on 23<sup>rd</sup> and 24<sup>th</sup> September 2016 at GMIT, Davangere.
- **International Conference Papers:**
  - “Experimentation on Property Optimization Of Clay Based Bricks”, Second International Conference on Multi-Disciplinary Research Trends in Engineering & Technology, SKSVMACET, Lakshmeshwar, 27th & 28th March 2025.
  - “Mechanical Properties Of Partially And Fully Recycled Coarse Aggregate Concrete Incorporating Steel And Glass Fibre” in the Second International Conference on Construction Materials and Structures (ICCMS-2022) during 13-19 December, 2022.
  - “Assessment Of Mechanical Properties Of Recycled Coarse Aggregate Concrete Incorporating Basalt And Polypropylene Fiber” in the Second International Conference on Construction Materials and Structures (ICCMS-2022) during 13-19 December, 2022.



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- “The Mechanical Properties Of Polypropylene Fibre Reinforced Concrete With Silica Fume As A Partial Replacement Of Cement”, 2nd International Conference on Emerging Trends in Science, Engineering and Management (ICETSEM-2021)” GM Institute of Technology, Davangere, Karnataka, India held on 15th & 16th July 2021.
- “Influence of Polypropylene Fibres on Recycled Aggregate Concrete”, International Conference on Processing of Materials, Minerals and Energy (PMME) – during 29th to 30th July 2016.

- **International Journal Papers:**

- Hanumesh B M, Harish B A, Swapna Channagoudar. “Evaluating the Optimal Alccofine-1203 Replacement Ratio in M20 Grade Concrete,” Journal of Polymer and Composites. 2025; 13(04):294-299.
- B.A. Harish, B.M. Hanumesh, N. Venkata Ramana “Mechanical properties of recycled coarse aggregate concrete incorporating steel and glass fibre”, Materials Today: Proceedings, <https://doi.org/10.1016/j.matpr.2023.04.089>
- B.A. Harish, B.M. Hanumesh, N. Venkata Ramana “Assessment of mechanical properties of recycled coarse aggregate concrete incorporating basalt and polypropylene fiber”, Materials Today: Proceedings, <https://doi.org/10.1016/j.matpr.2023.06.196>
- Hanumesh B M, N. Venkata Ramana, H. R. Prabhakara, “BEHAVIOUR OF SIMPLY SUPPORTED TWO WAY SLABS WITH GFRP AND STEEL REINFORCEMENTS IN PUNCHING SHEAR”, Design Engineering (DE), no. 1, pp. 2810 - 2825, Apr. 2022.
- Hanumesh B M, N. Venkata Ramana and H.R Prabhakara, “PUNCHING SHEAR BEHAVIOUR OF RESTRAINED TWO WAY SLABS WITH GFRP AS REPLACEMENT TO STEEL BARS”, Natural Volatiles & Essential Oils Journal (NVEO), 8(5): 13429-13444, 2021.
- Hanumesh B M, Prashanth O G, Mohan K, Gagandeep G R and Raghavendra G R, “MECHANICAL PROPERTIES OF RECYCLED AGGREGATE CONCRETE WITH STEEL FIBRES”, Journal of Emerging Technologies and Innovative Research (JETIR), Vol.7, issue7, July 2020.
- Hanumesh B M, Ranganath P N, G B Punyananda, Nithin Sai R and Shivalinga K G, “HYBRID FIBER REINFORCED CONCRETE USING STEEL AND POLYPROPYLENE FIBRES”, Journal of Emerging Technologies and Innovative Research (JETIR), Vol.7, issue 7, pp. 822 – 828, July 2020.
- 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”, International Journal for Research in Applied Science & Engineering Technology (IJRASET), Vol.6, issue 12, pp. 522-528, December 2018.
- Hanumesh B M, Vinay V B, Veeresh N S, Vedashri U C, Banu S G, Shivakumara B, “THE MECHANICAL PROPERTIES OF STEEL FIBRE REINFORCED CONCRETE WITH QUARRY

DUST AS A PARTIAL REPLACEMENT OF FINE AGGREGATE”, International Journal for Research in Applied Science & Engineering Technology (IJRASET), Vol.6 issue 5, pp. 1521- 1527, May 2018.

- Vinayak S Garagi, Sunil Kumar N Naik, Latha K M, Smitha R K, Hanumesh B M, Shivakumara B, “EXPERIMENTAL STUDY ON EFFECTS OF ASPECT RATIO OF GLASS FIBERS IN CONCRETE”, International Journal of Emerging Technology and Advanced Engineering (IJETAE), Vol.7 issue 5, pp. 75-80, May 2017.
- Hanumesh B M, Roja S B, Nanda S P, Puneeth Kumar N M, Akarsha P, Shivakumara B, “THE MECHANICAL PROPERTIES OF CONCRETE INCORPORATING SILICA FUME AND FLY ASH AS A PARTIAL REPLACEMENT OF CEMENT”, International Journal of Emerging Technology and Advanced Engineering (IJETAE), Vol.7 issue 5, pp. 164-170, May 2017.
- Harish B A, Hanumesh B M, Siddesh T M, Siddalingesh B K, “AN EXPERIMENTAL INVESTIGATION ON PARTIAL REPLACEMENT OF CEMENT BY GLASS POWDER IN CONCRETE” International Research Journal of Engineering and Technology (IRJET), Vol.3 issue10, pp. 1218-1224, October 2016.
- 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 OF FINE AGGREGATE”, International Journal of Emerging Technology and Advanced Engineering (IJETAE), Vol.6 issue9, pp. 60-67, September 2016.
- Harish B A, Siddesh T M, Hanumesh B M, Siddalingesh B K, “EXPERIMENTAL STUDY ON THE M20 GRADE OF CEMENT CONCRETE CONTAINING CRIMPED STEEL FIBRES” International Journal of Science Technology and Engineering (IJSTE), Vol.3 issue 3, pp. 1-8, September 2016.
- Hanumesh B M, Harish B A, N Venkata Ramana, “INFLUENCE OF POLYPROPYLENE FIBERS ON RECYCLED AGGREGATE CONCRETE” Materials Today Proceedings 5 (Elsevier), 1147–1155, February 2018.
- Harish B A, Hanumesh B M, Siddesh T M, Sanjay S J, Siddalingesh B K, “AN EXPERIMENTAL STUDY ON THE BEHAVIOR OF M20 GRADE CEMENT CONCRETE BY PARTIAL REPLACEMENT OF CEMENT BY RICE HUSK ASH”, International Journal of Science Technology and Engineering (IJSTE), Vol.2 issue11, pp. 883- 889, May 2016.
- Hanumesh B M, Varun B K, Harish B A, ”THE MECHANICAL PROPERTIES OF CONCRETE INCORPORATING SILICA FUME AS PARTIAL REPLACEMENT OF CEMENT”, International Journal of Emerging Technology and Advanced Engineering (IJETAE), Vol. 5 issue 9, pp 270- 275, September 2015.

#### Professional Membership

- Indian Concrete Institute (ICI) – Life Member - 13920



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- Indian Society for Technical Education (ISTE) – Life Member – LM129488
- Institute of Scholars (InSc) – Professional Membership – InSc20200917

#### Awards & Recognitions

- Young Achiever Award 2020 by InSc for publication of paper in scopus indexed journal.

#### Administrative Responsibilities

- Department Level: Academic Coordinator, Time Table Coordinator, Admission Coordinator, Student Forum Treasurer, Gardening.
- University Level: Green Energy and Audit Committee member, BoS Member

#### Workshops / FDPs / Seminars Attended

- FDP on " Smart Materials And Technologies For Durable Structures" organized by R.V.R. & J.C. College of Engineering, (Autonomous), Chowdavaram, Guntur, Andhra Pradesh, India from 15-09-2025 to 19-09-2025.
- AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Five days Faculty Development Program on Sustainable Design with Pre-Engineered Techniques:- An Approach towards Eco-Friendly Buildings" from 13/09/2021 to 17/09/2021 at Dayananda Sagar Academy of Technology & Management.
- AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Recent Advances in Earthquake Engineering" from 20/09/2021 to 24/09/2021 at Madan Mohan Malaviya University of Technology, Gorakhpur.
- FDP on "Climate Change and Carbon Issues", during 6th to 10th July 2020 at B M S College of Engineering, Bengaluru.
- Workshop on "Research Methodologies & LaTeX" organized by VTU e-Learning Centre, Mysuru from 19th to 21st June 2019 at DBIT, Bengaluru.

#### Workshops / FDPs / Seminars Organized

- Resource Person in the Continuing education Programme (CEP-2025) on "Failure of Structures & its Cause & Restoration of Structures" held from 22<sup>nd</sup> September 2025 to 27<sup>th</sup> September 2025 at Department of Studies in Civil Engineering, UBDTCE, Davanagere, for delivering the lectures on "Repair Materials and Techniques" (Dt: 23/09/2025).

#### Projects Guided

- UG Projects: Guided numerous Undergraduate students in project work focused on:
  - Recycled Aggregate Concrete
  - Fiber-Reinforced Concrete
  - Stabilization of black cotton soil using cementitious materials and Fibres



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#### Funded Projects / Grants Received

- “Stabilization of black cotton soil by using rice husk ash and sugarcane bagasse ash”, KSCST Amount Sanctioned Rs. 6,000/-, AY 2020-21.
- “The mechanical properties of polypropylene fiber reinforced concrete with silica fume as a partial replacement of cement”, KSCST Amount Sanctioned Rs. 6,000/-, AY 2021-22.
- “An Investigation On The Effects Of Stabilising Clayey Soil Using Copper Slag And Nanomaterial”, KSCST Amount Sanctioned Rs. 6,000/-, AY 2024-25.

#### Any Other Contributions

- Civil Engineering Consultancy services related to Geotechnical investigation and soil characterisation.
- Marketing and promotional activities of the University for various technical events and programs.