



## Contact

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## Mr. Puttaraj M H

Professor in Civil Engineering, Assistant Professor.

### Faculty

Faculty of Engineering and Technology

### School / Program

School of Engineering

B.Tech. in Civil Engineering Engineering

### Faculty Introduction

Mr. Puttaraj M H is an Assistant Professor in the Department of Civil Engineering at GM University, Davangere. Specialized in construction Technology and Management, with a focus on sustainable materials and innovative construction practices. Earned my M.Tech and B.E from Visvesvaraya Technological University Belagavi. I have conducted research on the utilization of waste plastics in floor tiles and bricks, promoting eco-friendly construction solutions such as, Alternative building materials, Green Composites, Green Materials and Sustainable Technologies. My work integrates material science and sustainable engineering to address modern construction challenges.

### Qualifications

#### **M. Tech. (Construction Technology and Management)**

Visvesvaraya Technological University – Belagavi, Karnataka, 2017

#### **BE (Civil Engineering)**

Visvesvaraya Technological University – Belagavi, Karnataka, 2013

### Experience

#### Teaching

- 1 Year at MITE, Mangaluru
- 8 Years at GMIT, Davanagere

#### Industry

- 1 Year at Sri Navadurga Constructions Ltd.

#### Research

- Sustainable Building Materials- Green Materials

#### Training Program Attended

- Training Program on ‘Remote sensing and GIS technology and application for university teachers & Government officials’ by ISRO, Dehradun on 13-06-2020 to 13-7-2020
- Workshop on ‘Introduction to LEED for design & Construction’ by United States Green Building Council on 03-06-2021.
- FDP on “Building Information Modeling” organized by Andhra Pradesh State Skill Development Corporation.
- FEP on “Fluid Mechanics” by VTU, Belagavi on 27-08-2018 to 31-08-2018
- Faculty Development programme on “Information and communication technology & Outcome based education by GMIT on 16-07-2022
- Workshop on “Product Design” by GMU, Davanagere on 22-08-2025
- FDP on “English Language Training” By GMU, Davanagere on 22-07-2025 to 27-07-2025
- Leadership Training Program by GMU, Davanagere.

#### **Research Interest**

- Green Building Technology.
- Sustainable Materials.
- Fluid Mechanics
- Alternate Building Materials.
- Green Technology.
- Soil Mechanics

#### **Awards & Achievements**

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#### **Publication / Patents**

- Mr. Puttaraj MH *et.al.* P “Reuse of Plastics Waste for The Production of Floor Tiles” Seybold Reports, Volume 15 issue 8 Aug 2020, ISSN:1533-9211.
- Mr. Puttaraj M Hiremath *et.al.* “Utilization of Waste Plastic in Manufacturing of Plastic-Soil bricks”, IJTEEE, Volume 2 Issue 4, ISSN2347-4289.
- Mr. Puttaraj M H *et.al.* “Mechanical Characterization Of Glass Fiber Reinforced Polymer (GFRP) Bars”, IJTEEE, Volume 3, Issue 4, ISSN2347-4289
- Ms. Sowmya S M, Mr. Puttaraj M Hiremath, “Potential Usage of Construction and Demolition waste in the Manufacture of Concrete Blocks”, IRJET, Volume 4, Issue 8, ISSN2395 -0072
- Mr. Puttaraj M H, *et.al.* “Potential Usage of Solid Waste Composites in the Manufacturing of Eco-friendly Cement Bricks”, IJSART, Volume 4 Issue 5, ISSN [ONLINE]: 2395-1052, pp 1536-1542
- Mr. Puttaraj M H *et.al.* “Strength Characteristics of Ecofriendly Cement Bricks Using Solid Waste Composites”, IJSART, Volume 4, ISSN [ONLINE]: 2395-1052, pp 1697-1702.
- Mr. Puttaraj M H “Experimental Study on Fly ash Bricks” 14th ISTE annual Convention & National Conference on Emerging trends in Engineering, Research & Management”2021
- Mr. Puttaraj M H “Experimental Study on Green Blocks” International Conference on emerging Trends in Science, Engineering and Management 2018

### Professional Membership

- Indian Society for Technical Education. (Membership No. LM129487) (Life Member)
- Hong Kong Chemical, Biological & Environmental Engineering Society (Life Time)

### Awards & Recognitions

### Administrative Responsibilities

- Department Level: Placement Coordinator, Academic Project Coordinator, Internship Coordinator, Member of IIC, FASEC coordinator.
- University Level: Member of Centre for Industry, Government Sponsored Research Development.

### Workshops / FDPs / Seminars Attended

- National Workshop on “Virtual Lab Sessions” by Virtual Labs, MHRD Date: 14-05-2020 Online mode
- National Workshop on “Challenges in Concrete Technology” by ICI Chennai & Bengaluru Centre Date: 30-05-2020 Online mode
- Workshop on “Advanced Mathematical Techniques in Research & engineering Applications” by ISTE-IQAC GMIT, Davanagere Date:29-30<sup>th</sup> 2018
- Workshop on “Latex in Research activities” by R&D GMIT, Davanagere Date:15<sup>th</sup> -17<sup>th</sup> July 2020
- Technical Training on “Various Reinforced Soil Walls and Slope Systems” by IIT, Silchar Date: 15-05-2020 online Mode.
- Faculty Development programme on “Total station & E-surveying” by GMIT, Davanagere Date:08-07-2022
- Faculty Awareness Program on NBA and NAAC “Teaching Learning Process to Enhance Program Outcomes”
- Workshop on “Software Up skill program- Revit Architecture” by GMU, Davanagere Date:03-5-2025

### Workshops / FDPs / Seminars Organized

- Faculty Development Programme (FDP) on “Up skilling of AUTOCAD 2019” Organised by: Faculty and Staff Enrichment Centre
- Faculty Development Programme (FDP) on “Review and relearn of Environmental Studies Course” Organised by: Department of Civil Engineering.
- Faculty Development Programme (FDP) on “Software Up skill Program- Revit Architecture” Organised by: Department of Civil Engineering.
- Two Day Workshop on “MS Project” for Civil Engineering Semester students, Organised by: Department of Civil Engineering.

### Projects Guided

- Plastic Soil Bricks
- Fly ash Interlocks

- Plastic Tile
- Stabilised Adobe Blocks
- Green Concrete
- Strength Assessment of Geopolymer Blocks
- BRTS proposal for Harihar to Davanagere.
- Light duct; Green Technology

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

- Stabilized adobe blocks using waste products
- Principal Investigator: Mr. Puttaraj M H
- Department of Civil Engineering, KSCST, IISC Grant
- Sanctioned Amount of 5500.00/- AY 2024-2025
- Plastic Tiles
- Principal Investigator: Mr. Puttaraj M H
- Department of Civil Engineering, KSCST, IISC Grant
- Sanctioned Amount of 6000.00/- AY 2023-2024
- Hollow Plastic Bricks
- Principal Investigator: Mr. Puttaraj M H
- Department of Civil Engineering, GMU Seed Grant, Amount Sanctioned of 20000.00/- AY 2024-25

#### **Any Other Contributions**