

# Dr. Sharanabasava Patil

I Sharanabasava Patil, a dedicated researcher with a strong foundation in academia and revolutionary research. I earned my undergraduate B.Tech in Civil Engineering from Central University of Karnataka in 2017 and my Postgraduate M.Tech in Construction Technology from Central University of Karnataka in 2018. With over 2 years of teaching experience and three years of research experience, I have collaborated with professionals from 5 nationalities, gaining a diverse and global perspective. I completed my full-time Ph.D. as a Research Scholar at SIMATS, focusing on advanced fields such as Sustainability, Supplementary Cementitious Materials SCMs, Fiber-reinforced Concrete, Statistical Analysis, and Graph Neural Networks. My research contributions include publications in esteemed international high-impact journals. My current work aims to advance the development of sustainable concrete, aligning with my vision of driving innovation in machine learning and cognitive computing. My dedication to transformative technologies reflects my commitment to addressing complex challenges through research and innovation.

## Work History

- 2026-02 – Current**      **Assistant Professor**  
*PDA College of Engineering, Kalaburagi, Karnataka, India*
- 2024-08 – 2026-02**      **Assistant Professor**  
*KLE Technological University, BVB College, Karnataka, India*
- Taught Civil Engineering-related subjects
  - Evaluation coordinator
  - Initiate, facilitate, and moderate classroom discussions.
  - NBA Accreditation duties (Criteria – 4).
  - Administrative duties under AICTE Team.
  - Consultancy work (Civil Engineering Projects: Concrete Mix Design, Highway Projects, Railways Projects, etc).
- 2021-11 2024-08**      **Research Scholar (Full time-Ph.D.)**  
*SIMATS Engineering, Saveetha Institute of Technical and Medical Sciences, Chennai, India*



## Contact

### Address

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+91 8217241924

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[sharanabasavapatil16@gmail.com](mailto:sharanabasavapatil16@gmail.com)

- Focus on advanced fields such as Material Characterization, SCMs, Sustainable fiber-reinforced Concrete and Statistical Analysis
- Research contributions include publications in esteemed international high-impact journals.

Area of Research: **Lateritic Aggregate, SCMs, Rheological, Mechanical and Durability Studies of Concrete, and 3D Response Graph**

Experimental Evaluation: **Fresh and Hardened Concrete**

- Statistical analysis: **RSM and Taguchi Methodology**

**2023-06 -  
2023-07**

### **Project Intern**

*Indian Institute of Technology Madras, Chennai, India*

- Completed research project work entitled “Ultra high performance of concrete and its durability studies” in Advanced Concrete Testing and Evaluation Lab.

**2019-05 -  
2020-11**

### **Assistant Professor**

*Global Institute of Engineering and Technology, Hyderabad, India*

- Taught Civil engineering related subjects
- Initiate, facilitate, and moderate classroom discussions
- Administrative duties under AICTE Team

## Skills

- Quantitative research
- Qualitative research
- Scientific writing
- Research design
- Literature review
- Research documentation
- Lecturing
- Academic research
- Classroom presentations

- Student counseling
- Performance assessment
- Examination administration
- Student assessment



## Education

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2025	<b>Ph.D. Civil Engineering</b> <i>Saveetha Institute of Technical &amp; Medical Science - Chennai, Tamil Nadu, India</i> Published in esteemed high impact journals
2018	<b>M.Tech: Construction Technology</b> <i>Central University of Karnataka - Gulbarga.</i> Achieved 88 percentage
2017	<b>B.Tech: Civil Engineering</b> <i>Central University of Karnataka - Gulbarga.</i> Achieved 74 percentage
2013	<b>XII: Physics, Chemistry, Mathematics</b> <i>State Board of Karnataka</i> Achieved 67 percentage.
2011	<b>X: Mathematics – Science</b> <i>State Board of Karnataka</i> Achieved 72 Percentage.



## Details of Ph.D. Degree

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Title of Research Work: A Study on Experimental Evaluation and Statistical Modeling of Sustainable Fiber Reinforced Fly Ash Based Lateritic Concrete.

Date of Joining Ph.D. program: **30<sup>th</sup> November 2021**

Completion date of Ph.D. Degree: **27<sup>th</sup> January 2025**

**Name of Thesis Supervisor:**

**Dr. B. Ramesh**

Professor, Principal

Department of Civil Engineering,

SIMATS Engineering,  
Chennai, Tamil Nadu, India.  
E-Mail: [bramesh@saveetha.com](mailto:bramesh@saveetha.com)  
Mobile: +91-9962827150



## Achievements & Awards

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- Completed “NPTEL Courses on SWYAM CENTRAL portal”, which was approved by AICTE and a national- level council for technical education, under Department of Higher Education, Ministry of Human Resource Development, Government of India. List of completed courses is as follows:

1. Development and Applications of Special Concretes.
2. Retrofitting and Rehabilitation of Civil Infrastructure.
3. Maintenance and Repair of Concrete Structures.
4. Basic Construction Materials.
5. Introduction to Research.
6. Research Methodology in Natural Sciences.

- Participated in a workshop on “Emerging Technologies in BIM”, organized by SIMATS University, Chennai on 26<sup>th</sup> February 2024.

- Participated in ‘Two Week National Level Virtual Workshop’ on “Advanced Research Methodology”, organized by SRM Institute of Science and Technology, Chennai from 03<sup>rd</sup> July 2023 to 18<sup>th</sup> July 2023.

- Participated in a “Research Discussion”, organized by SIMATS University, Chennai on 09<sup>th</sup> November 2022.

- Participated in a Knowledge, 4.0 National Conference on “Advanced Construction Materials and Techniques for Sustainable Development” (NACM), 2020.

- Participated in three-day training program on “Occupational Health, Safety and Environment”, organized by Central University of Karnataka, Gulbarga.

- Participated in KSTA workshop on “Science and Technology for Disaster Management”, organized by Central University of Karnataka, Gulbarga.
- Completed a program of training on “Graphic Science & Workshop”, organized by Karnataka German Technical Training Institute, Gulbarga.
- Acted as a Reviewer entitled “A Strategy for Industrial Waste Mitigation Thermal Treatment of Non-woven Polyester Fabric Debris on Ultrahigh-Porosity MgO under CO<sup>2</sup> Atmosphere”, Alexandria Engineering Journal. (IF: 6.2).



## Publications

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### ***SCIE and Scopus Indexed Journals***

1. Patil, S., Bhaskar, R. and Xavier, J.R. (2024). Optimization of rheological and mechanical properties of sustainable lateritic self-compacting concrete containing sisal fiber using response surface methodology, *Journal of Building Engineering*, 84, 108574.
2. Patil, S., Ramesh, B., Sathish, T., Saravanan, A., Almujiabah, H., Panchal, H., Makki, E. and Giri, J. (2024). Evaluation and optimization of mechanical properties of laterized concrete containing fly ash and steel fiber using Taguchi robust design method, *Alexandria Engineering Journal*, 87, 682-706.
3. Patil, S., Ramesh, B., Sathish, T. and Saravanan, A. (2024). RSM-based modelling for predicting and optimizing the rheological and mechanical properties of fibre-reinforced laterized self-compacting concrete. *Heliyon*, 10, e25973.
4. Sharanabasava Patil., B. Ramesh, A. Saravanan. (2023). Effect of Lateritic Aggregate and Steel Fiber on Fresh and Mechanical Properties of Concrete, *SSRG International Journal of Civil Engineering*, 10 (12), 50-57.
5. Sharanabasava Patil., B. Ramesh, A. Saravanan. (2023). Mechanical Properties of Waste Laterite Scrap as Fine Aggregate in Concrete: A Review, *SSRG International Journal of Civil Engineering*, 10 (11), 40-49.

## **National and International Conference Papers**

6. Patil, S., Kavuru, R. and Begum, M.R. (2020). Analysis of construction project using earned value - A case study, Journal of Critical Reviews, 7(4), ISSN – 2394-5125.



## **Internship**

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1. Completed research project work entitled “Ultra high performance of concrete and its durability studies” in Advanced Concrete Testing and Evaluation Lab at Indian Institute of Technology, Madras (IITM) from 3<sup>rd</sup> June to 14<sup>th</sup> July 2023.
2. Completed In-situ live Project work entitled “Earned Value Management for A Construction Project – A Case Study” at KADTECH Infra-projects Pvt. Ltd, (Brigade Symphony project), Mysore from January 2018 to 25<sup>th</sup> March 2018.
3. Attended In-plant training in Nagpur Metro Rail Corporation Limited from June 10<sup>th</sup> to 8<sup>th</sup> July 2017.



## **Journal Article Reviewer**

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1. Reviewer @ Alexandria Engineering Journal, Title: A Strategy for Industrial Waste Mitigation Thermal Treatment of Non-woven Polyester Fabric Debris on Ultrahigh-Porosity MgO under CO<sub>2</sub> Atmosphere. The journal is indexed by Web of Science and SCOPUS.



## **Personal Details**

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Date of Birth: 28-08-1995

Sex: Male

Marital Status: Unmarried

Nationality: Indian

Language Known: English, Kannada, Hindi, Telugu.

Driving License: L.M.V (in INDIA)

Strength: Self-confidence, Bold Decision Taker for Future growth.

Passport No: C7946298  
Date of Issue: 05/02/2025  
Date of Expiry: 04/02/2035  
Place of Issue: Bengaluru  
Current Location: Karnataka  
Current Visa Status: Citizenship (India)



## References

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### **1. Dr. B. Ramesh**

Professor (Principal)  
Department of Civil Engineering,  
Saveetha School of Engineering,  
SIMATS University, Chennai - 602105  
Tamil Nadu, India  
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### **2. Dr. P. Sudhakar Rao**

Assistant Professor  
Department of Mechanical Engineering,  
National Institute of Technical  
Teachers Training and Research (NITTTR),  
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### **3. Dr. Prabhudev M. S.**

Principal  
Government Polytechnic College,  
Afzalpur, Kalaburagi  
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## Declaration

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I declare that the particulars given above are true to the best of my knowledge.

Place: Kalaburagi

Date: 23-02-2026

A handwritten signature in black ink, appearing to read 'S. Patil', is written over a light-colored rectangular stamp or watermark.

SHARANABASAVA PATIL