

Faculty Profile

Name	:	Dr. Sachin V	
Designation	:	Assistant Professor	
Department	:	Civil Engineering	
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About me: I am a structural engineer and an academician with over 10 years of experience. I previously served as a Senior Research Fellow (BARC-Sponsored Project) at NIE, a Structural Design Engineer at M/S Nagesh Consultants, and an Assistant Professor at Dayananda Sagar College of Engineering.

My expertise includes structural fire engineering, forensic investigation, and Building Information Modeling. My research focuses on fire performance study, Thermo-Mechanical FE analysis, Development of fire protective coatings. Currently, I am involved in consultancy services for the Building Fire Research Centre (BFRC) and provided consultancy service to BARC-RMP project concerning PUF panel performance in the year 2024.

Received "Best Paper" award at the SMPBE and TRACE conferences in 2023 and the "Best Demonstrator" award from DSCE, Bengaluru in 2017.

Qualification:

B.E. (Civil), M. Tech (Structures), Ph.D. (Civil)

Courses Taught:

- Advanced Concrete Technology (PG)
- Building Information Modelling (PG)
- Sustainable Development Goal (UG)
- Engineering Mechanics (UG)
- Concrete Techniques and Practices (UG)
- Concrete Lab | BMT Lab | CAED | Software Application Lab

Publications:

International Journal Articles

1. **V, Sachin.** and Suresh, N. (2021), "Residual properties of normal-strength concrete subjected to fire and sustained elevated temperatures: A comparative study", **Journal of Structural Fire Engineering**, Vol. 12 No. 1, pp. 1-16.
2. **V, Sachin.** and Suresh, N. (2021) "Study on the residual performance of RC beams exposed to processed temperatures and fire". Submitted to **Journal of Structural Fire Engineering**.

International Conference (Chronological Order)

1. Dr. N Suresh, Mr. Sachin V and Mr. Avinash A Patil (2019). "Comparative analysis of residual strength of RC elements exposed to elevated temperature". PROTECT 2019, Whistler, BC Canada.
2. Manoj Kumar C V, Sachin V, N Suresh, & Naveen B O (2023)." The Collapse Mechanism of Composite Steel Framed Structure Exposed to Parametric Design Fire and Travelling Fire Scenarios. Sustainable Materials and Practices for Built Environment (SMPBE-2023). Manipal University, Jaipur; Material Today Proceedings.
3. Amar C R, Sachin V, & N Suresh (2022). Analytical studies on the fire resistance of reinforced concrete beams exposed to parametric time-temperature curve. In 4th International Conference on Trends and Recent Advances in Civil Engineering (TRACE-2022) Amity University, Noida; Springer Nature Proceedings.
4. Jafar, K.M., Sachin, V. (2024). Performance Evaluation of Fire Exposed RC Structure Using Pushover Analysis. In: Civil Engineering for Multi-Hazard Risk Reduction. IACESD 2023. Lecture Notes in Civil Engineering, vol 457. Springer, Singapore. https://doi.org/10.1007/978-981-99-9610-0_36.
5. Y.M. Manjunath, Madhusoodan, Sachin V, Nikhil Gupta (2025). "Fire performance evaluation of sandwich PUF panel exposed to the design fire". 2nd International Conference on Condition Assessment, Rehabilitation and Retrofitting of Structures, IIT Roorkee (**Submitted**).
6. Sachin V, Suresh N (2025). "Application of NDT results in determining the fire exposure temperature of structural elements in fire accidents – A method for forensic investigation". Synergy of materials and structures, 2nd International Conference on Condition Assessment, Rehabilitation and Retrofitting of Structures, IIT Roorkee (**Submitted**).

Consultancy Works

1. Involved in the consultancy services provided by **Building Fire Research Centre (BFRC), DCE-CoE**, Since 2021.
2. Contributed for successful **renewal of NABL accreditation** three times for Building Fire Research Centre (BFRC).
3. **BARC-RMP** consultancy work, "Performance of PUF panel to design fires" in the year **2024 – Rs. 5,05,000/-**
4. Developed **BFRC-NABL documents, Inter Laboratory Comparison** and involved in **NABL audit** of BFRC during the year **2021 and 2023**.
5. **Developed Promotional Materials** for Building Fire Research Centre.
6. **Developed Contents and Framework** for Building Fire Research Centre **Commercial Website** www.bfrc.in.
7. Provided **Technical Design Input** for refurbishment of **Fire Door Testing Furnace** at **BFRC**.

Awards and Recognition

2021 to 2024.

1. Providing technical talk on "Structural Mitigation of Disasters" at Administrative Training Institute (ATI), Mysore from 2023 to 2025.
2. External panel member at Mysore University for Board of Examination – 2024 to 2025
3. NIE-CII panel discussion 2024 – Department coordinator and hosted the panel discussion.

4. Received Best paper award in the SMPBE and TRACE conference organized by Manipal University and Amity university in the year 2023.

2017 To 2018

1. Received Best Demonstrator award by the Dayananda Sagar College of Engineering in year 2017.
2. Associated in writing project proposal for BRNS-BARC project in 2018 – 25Lakhs.
