

## Mir Basar Suhaib



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Srinagar, Jammu and Kashmir, India



## Education

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- **Ph.D. Structural Engineering: March 2023 (Awarded)**

National Institute of Technology Srinagar, Jammu and Kashmir, India

Project- *“Effect of Fiber Reinforced Polymers on the Behaviour of Cold-formed Steel Beams”*.

- **M. Tech. Structural Engineering: September 2016, CGPA- 6.53.**

M. S. Ramaiah University of Applied Sciences, Bengaluru, Karnataka India.

Group Project- *“An Experimental Set-up to Perform Dynamic Analysis of One and Two Span Beams”*

Project- *“Design of Truss Arch Bridge and Development of an Equivalent Spring Support Model for Simplified Free Vibration Analysis”*.

- **B. Tech. Civil Engineering: May 2013, CGPA- 7.98**

Dr MGR Educational and Research Institute, Chennai, Tamil Nadu, India.

Project- *“Strength Characteristics of Concrete Using Combinations of Lateritic Stones as Coarse Aggregate and Quarry Sand as Fine Aggregate”*.

- **Higher Secondary Education in PCMB (Class 12): December 2008, with 77.73%.**

Burn Hall School, affiliated to Jammu and Kashmir Board of School Education

- **Secondary Education (Class 10): December 2006, with 84.80%.**

Burn Hall School, affiliated to Jammu and Kashmir Board of School Education

## Industry Experience

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- Internship at LD Hospital under **Jammu and Kashmir Projects Construction Corporation (JKPCC) Ltd.** Srinagar during the construction of the six-storey extension building in June 2011.

- Internship at Namma Metro Majestic Interchange Station (involving the work of Tunnel Boring Machine and Secant Pile Driving) under **Bengaluru Metro Rail Corporation Limited** in November 2014.
- Internship at the project “Construction of Expressway/ Corridor (flyover) from Jehangir Chowk to Rambagh Natipora Srinagar” in Sept-Oct 2015 under **Jammu and Kashmir Economic Reconstruction Agency (JKERA)**.
- First hand training of prestressing RCC bridge girders in the prestressing plant at Kralpora, Budgam under **Jammu and Kashmir Economic Reconstruction Agency (JKERA)** in October 2015.
- Part of the Quality Control Team sent by NIT Srinagar to inspect the integrity of pile foundation using Pile Integrity Tester (Eco Test) at the construction site in **JVC Hospital, Bemina, Srinagar** in June 2019.
- Provided the structural design of Intake Tank, Saddle Blocks and Retaining Wall of the Project titled “**Supplying, Laying, Jointing, Commissioning Including Operation and Maintenance of 1200 mm K9 DI Raw Water Pipe from Forebay of OGPB TO 30 MGD Water Treatment Plant at Rangil, Ganderbal, Jammu and Kashmir**” in April 2021.
- Design Engineer at **Sturdy Constructions Private Limited** from August 2022 to March 2023.

## Teaching Experience

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Courses taught at the UG and PG level-

1. Design of Steel Structures
2. Design of RCC Structures
3. Structural Lab-1
4. Advanced RCC Design
5. Advanced Steel Design
6. Dynamics Lab

## Research

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### 1. RESEARCH FOCUS

Steel Structures, Cold-formed steel structures, Built-up beams, Buckling Analysis, Non-linear Analysis, Fiber composites, Glass-fiber Reinforced Polymers (GFRP), pultruded GFRP structural members, Adhesion science, Structural retrofitting and rehabilitation.

### 2. PUBLICATIONS

- **Suhaib, M.B.**, Tantray, M.A. “Flexural Integrity Between the Individual Channels of Built-Up Cold-Formed Steel Beams”. *Int J Steel Struct* (2023). <https://doi.org/10.1007/s13296-023-00708-4>
- **Suhaib, M.B.**, Tantray, M.A. “Behaviour of GFRP Stiffened Cold-Formed Steel Built-up Beams”. *Int J Steel Struct* (2022). <https://doi.org/10.1007/s13296-022-00621-2>
- **Suhaib, M.B.**, Tantray, M.A. “Behaviour of cold-formed steel tensile members strengthened with GFRP using different techniques”. *Innov. Infrastruct. Solut.* **7**, 253 (2022). <https://doi.org/10.1007/s41062-022-00851-7>.

### 3. SUBMITTED MANUSCRIPTS

- **“GFRP strengthened lipped channel sections subjected to web crippling”** communicated to Structures, Elsevier, Impact Factor- 4.010
- **“Application of Strengthening by Stiffening Approach to Inhibit Local Buckling in Cold-Formed Steel Built-up Channel Beams”** communicated to Structures, Elsevier, Impact Factor- 4.010

### 4. REVIEWED MANUSCRIPTS

- Actively reviewed 5 scientific manuscripts from international journals such as Archives of Civil and Mechanical Engineering, Innovative Infrastructure Solutions and Electronic Journal of Civil Engineering.

## Certificates and Recognitions

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- Computer Science Programme for Microsoft Office in 2005.
- Diploma in AutoCAD from CADD Centre in 2014.
- Attended a Short-Term Course on “Advances in Structural Engineering and Materials” organized by Department of Civil Engineering and sponsored by TEQIP-III, National Institute of Technology Srinagar in February 2021.
- Expert speaker at a Short-Term Course on “Latest Advances in the Field of Civil Engineering” organized by Department of Civil Engineering National Institute of Technology Srinagar in February 2021.
- Expert speaker at a Short-Term Course on “Catastrophe and Civil Engineering Solutions” organized by Department of Civil Engineering National Institute of Technology Srinagar in June 2022.

## Technical Skills

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- Abaqus CAE
- ANSYS
- AutoCAD
- MATLAB
- Microsoft Office
- STAAD Pro

## References

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- **Dr. Manzoor Ahmad Tantray**, Professor, Department of Civil Engineering, National Institute of Technology Srinagar, Srinagar, India.  
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Phone- 9419428095
- **Dr. G. A. Harmain**, Professor, Department of Mechanical Engineering, National Institute of Technology Srinagar, Srinagar, India.  
Email- [gharmain@nitsri.ac.in](mailto:gharmain@nitsri.ac.in)  
Phone- 9419018804
- **Dr. Nayana S. Patil**, Professor and Head, Department of Civil Engineering, M. S. Ramaiah University of Applied Sciences, Bengaluru, Karnataka India.  
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