

Dr. Aamir Hassan

Civil structural Engineering

✉ dr.aamirhassan.89@gmail.com

☎: (+91) 700609991

Research Interests:

Steel-Concrete composite columns
Concrete confinement in tubular columns
Concrete filled steel tubular columns
Finite element simulations in Abaqus
Behavior of CFDST columns,
Machine learning applications in Civil Engineering.

IPDF

Department of Civil Engineering
Indian Institute of Technology (IIT)-ISM
Dhanbad, Jharkhand, India – 826004

dr.aamirhassan.89@gmail.com
eraamirhassan@gmail.com

EDUCATION

IPDF: Multicell-concrete filled steel tube, *Indian Institute of Technology (ISM)- Dhanbad*, <https://www.iitism.ac.in/>, Dhanbad, Jharkhand, India, (October **2024** – November **2025**)

Doctor of Philosophy: Structural Engineering, (**CGPA coursework: 7.2/10**), *National Institute of Technology-Srinagar* (<https://www.nitsri.ac.in/>), Hazratbal, Kashmir, India, (April 2017 –January **2024**)

Dissertation: Behaviour of concrete filled double skin columns.

Advisor: Prof. Javed Ahmad Bhat (Ph.D., IIT Delhi, India, <https://home.iitd.ac.in/>).

Master of Technology: Structural Engineering, (**GPA: 9.1/10**), *SRM- Chennai* (<https://www.srmist.edu.in/>), India, (June 2013 -May **2015**).

Thesis: Study of Structural Strength and Behavior of Frames with Concrete Filled Double Skin columns.:
Asstt. Proff. S. Sivakamasundari

Bachelor of Engineering (72.88%): Civil Engineering, *university of Kashmir* (<https://www.kashmiruniversity.net/>), Jammu and Kashmir, India, (November 2008 – December **2012**).

EXPERIENCE

- Institute Post Doctoral Fellow (IPDF):** Department of Civil Engineering, Indian Institute of Technology- (Indian school of mines) (<https://www.iitism.ac.in/>), Dhanbad, Jharkhand, India. October 2024 – November 2025.
- Junior Researcher:** Department of Civil Engineering, National Institute of Technology- Srinagar (<https://www.nitsri.ac.in/>), Hazratbal, India. **June 2024 – October 2024.**
- Guest faculty:** Department of Civil Engineering, National Institute of Technology- Srinagar (<https://www.nitsri.ac.in/>), Hazratbal, India. August 2024 – October 2024.
- Graduate Research / Teaching Assistant:** Department of Civil Engineering, National Institute of Technology- Srinagar (<https://www.nitsri.ac.in/>), Hazratbal, India. **December 2016 – May. 2023**
- Lecturer:** Department of Civil Engineering, Islamic university of science and Technology- National Institute of Technology- Srinagar (<https://www.nitsri.ac.in/>), Hazratbal, India. **December 2016 – March 2017.**
- Assistant Professor :** Department of Civil Engineering, Islamic university of science and Technology- Awantipora (<https://www.iust.ac.in/>), Hazratbal, India. **February 2016 – December 2016.**

PUBLICATIONS**Journal Published**

1. **Hassan A.**, Bhat JA, Sofi FA, Dar MA. "Tests on Short Outer Tube–Stiffened CFDST Columns: Effect of Stiffener Distribution on Axial Performance" *Journal of structural engineering*, ASCE 2025; 151. ISSN: 1943-541X, <https://doi.org/10.1061/JSENDH.STENG-14487> .
2. **Hassan A.**, Bhat J.A., Dar M.A. "Development of Circular Multi-Cell Double-Skin Tubular Columns: Testing and improved axial performance" *Journal of structural engineering*, ASCE, ISSN: 1943-541X <https://doi.org/10.1061/JSENDH.STENG-13845>
3. **A. Hassan**, R. Bhartiya, "Multi-cell double-skin tubular columns with rotated inner tube: Axial design and testing", *Journal of Construction Steel and Research*. 236 (2026) 110060.Elsevier 2026 <https://doi.org/10.1016/j.jcsr.2025.110060>.
4. **A. Hassan**, R. Bhartiya, A. Ranjan, Experimental evaluation and design recommendations for stiffener placement in square double-skin tubular columns, *Mechanics of Advanced Materials and Structures*, 0 (2025) 1–23., (Taylor and Francis 2025), <https://doi.org/doi.org/10.1080/15376494.2025.2570523>. 1537-6494
5. **Hassan A.**, M.A. Dar, Bhat, J.A. "Modified Concrete Confinement Model for Multicell Double-Skin Tubular Columns" (Accepted in *Journal of Structural Design and Construction Practice*, **ASCE**). 2996-5136, DOI: [10.1061/JSDCCC.SCENG-2225](https://doi.org/10.1061/JSDCCC.SCENG-2225)
6. **Hassan A.**, Ahmad Bhat J. "Effectiveness of Stiffeners in CFDST Columns: Comparative Study". *Practice Periodical on Structural Design and Construction*. ASCE, 2023;28 <https://doi.org/10.1061/PPSCFX.SCENG-1260> 2996-5136
7. Parameshwar H., A. B. Parray, **Hassan A.***; P Kankeri, (2024), "Acid Durability of Fly Ash, GGBS, Quarry Dust and RCA based Green-Concrete" *Practice Periodical on Structural Design and Construction*. ASCE, <https://doi.org/10.1061/PPSCFX.SCENG-1499>
8. **Hassan, A.***, Bhat, J.A. Behaviour of CFDST and RCC member hybrid frames. *Asian J Civ Eng*. 22, 1045–1058 (2021). <https://doi.org/10.1007/s42107-021-00364-1>
9. **Hassan A.***, J.A.Bhat, (2023), "Behavior of partial-length stiffened and full-length stiffened CFDST columns under axial load", *World Journal of Engineering*, Vol. 21 No. 3, pp. 455-474. <https://doi.org/10.1007/s42107-021-00364-1>

*Corresponding author

CONFERENCE PAPERS

1. **Hassan, A.**, Bhat, J.A. Sofi, F.A. " Experimental and analytical investigation of outer tube stiffened CFDST columns under compression" in International Conference on Condition Assessment, Rehabilitation & Retrofitting of Structures (CARRS 2023), IITHyderabad,11-13,Dec-2023(<https://easychair.org/publications/preprint/6pR4>), RILEM, Springer.
2. **Hassan, A.**, Dar M.A., Bhat, J.A., " Axial Compressive Strength of Multi-Cell Double-Skin Tubular Columns" in International Conference on Advances in Sustainable Materials, Modelling & Infrastructure (ASMMI – 2025), BITS Pilani.
3. Ranjan, A., Bhartiya, R. and **Hassan, A.** (2025). "Post-fire Behavior of Concrete-filled Steel-Tubular Columns" in International Conference on Smart Resilient and Sustainable Infrastructure (SRISTI), IIT (ISM) Dhanbad, India, ASCE.

Post Doc:

1. **Indian Institute of Technology (Indian School of Mines), Dhanbad**

Digital platform IDs

Scopus ID

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ORCID ID

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Google Scholar ID

https://scholar.google.com/citations?hl=en&view_op=list_works&gmla=ALUCkoW-DgzZrtyD54eEeePJvTFI3doe_XjosJuzVrBJhAJpIR_fkHX1nwqKloKS7coLtWK70GPob3E8jqJjn3_wK4&user=ntrOQRcAAAAJ

Research Gate ID

<https://www.researchgate.net/profile/Aamir-Hassan-6>

Reviewer for Journal:

1. **Journal of Structural Design and Construction Practice, (ASCE).**
2. **Journal of construction steel and research, (Elsevier).**
3. **Advances in Civil Engineering Materials, (ASTM).**
4. **Innovative Infrastructure Solutions, (Springer)**
5. **Frontiers in Materials, (Frontiers).**

REFERENCES:

1. **Dr. Javed. A. Bhat**
(<https://nitsri.ac.in/Pages/FacultyProfile.aspx?nEmpID=os&nDeptID=c>)
Ph.D. Indian Institute of Technology Delhi, India.
HOD and Professor, Department of Civil Engineering NIT Srinagar, India.
Email: bhat_javed@nitsri.ac.in
Phone (Mobile): (+91) 9419520381
2. **Dr. Mohammad Adil Dar**
(<https://www.sheffield.ac.uk/mac/people/research-staff/mohammad-adil-dar>)
Ph.D. Indian Institute of Technology Delhi, India.
Assistant Professor, Department of Civil Engineering BITS Hyderabad, India.
Email: dar.adil@sheffield.ac.uk
Phone (Mobile): (+91) 9999468918
3. **Dr. Rahul Bhartiya**
(<https://nitsri.ac.in/Pages/FacultyProfile.aspx?nEmpID=iss&nDeptID=c>)
Ph.D. Indian Institute of Technology Delhi, India.
Assistant Professor, Department of Civil Engineering IIT (ISM) Dhanbad, India.
Email: rahulb@iitism.ac.in
Phone (Mobile): (+91) 88009 59269
4. **Dr. Parameshwar**
(<https://nitsri.ac.in/Pages/FacultyProfile.aspx?nEmpID=iss&nDeptID=c>)
Ph.D. National Institute of Technology Surathkal, Karnataka, , India.
Assistant Professor, Department of Civil Engineering NIT Srinagar, India.
Email: parameshwar.n@nitsri.net
Phone (Mobile): (+91) 9149566751