

Chitrita Barman

PhD. Student - SE
Department of CE
Indian Institute of Technology, Madras
Sardar Patel Road, Pin Code: 600036
Chennai, Tamil Nadu, India

ACADEMIC BACKGROUND

Doctor of Philosophy (PhD) in *Structural Engineering*

Course offered by : *Department of Civil Engineering*

Status : **Pursuing**

Institution : *Indian Institute of Technology Madras*

Institute Address : *Sardar Patel Road, Chennai, Tamil Nadu-600036, India*

University : *IIT Madras*

Overall Result : *(currently in 1st Semester).*

Master of Technology (M.Tech.) in *Smart Structural Engineering*

Course offered by : *Department of Civil Engineering*

Year of Completion : **2026**

Institution : *National Institute of Technical Teachers' Training & Research, Kolkata*

Institute Address : *Block - FC, Sector - III, Salt Lake City, Kolkata - 700106*

University : *Deemed to be University*

Overall Result : **9.11 CGPA/10(Distinction)**

Bachelor of Technology (B.Tech.) in *Civil Engineering*

Year of Completion : **2022**

Institution : *Techno International New Town*

Institute Address : *V /1, DG Block(Newtown), AA I, Newtown, Kolkata 700156*

University : *affiliated to MAKAUT*

Overall Result : **9.28 CGPA/10**

Diploma in *Civil Engineering*

Year of Completion : **2019**

Institution : *Narula Institute of Technology*

Institute Address : *81, Nilgunj Rd, Agarpara, Kolkata 700109*

University : *affiliated to WBSCTE*

Overall Result : **8.6 CGPA/10(Distinction)**

WORK EXPERIENCES

Assistant Engineer in *AXIS architects & engineers*

Job role : *Preparing Architectural and structural drawings for approval from NKDA, preparing working drawings for site execution.*

Software Used : *AutoCAD*

Duration : **July 2022 to July 2024**

Management trainee in UTKARSH India Limited

Job role : *Managing sales of Kolkata region, preparing bills of products purchased.*

Software Used : *Microsoft Excel*

Duration : **February 2022 to March 2022**

PUBLICATIONS & CONFERENCE PAPERS

Conference Papers

1. "Comparison between seismic response of regular and irregular building by static and dynamic method" in International Conference on Green Technology & Sustainability 2025
2. "Integrating climate resilience into structural design of urban infrastructure" in Global Climate Action: Strategies for a Sustainable Future 2025
3. "Comparative analysis of Sugarcane fibre and glass fibre composite materials for climate change and resilience" in Global Climate Action: Strategies for a Sustainable Future 2025
4. "Green building: An overview of evaluation, cost-effectiveness and operational strategies for sustainable development" in Green Energy, Environmental and Technology 2025

PROJECTS

M.Tech Thesis in *Evaluation of seismic behaviour of steel moment resisting frames on sloping ground considering soil-structure interaction.*

Focus Area : *MRF Steel buildings on slope & Soil Structure Interaction*

Status : **Completed**

Institution : *National Institute of Technical Teachers' Training & Research, Kolkata*

Thesis Supervisor : *Prof. Mithu Dey*

Methodology : *Nonlinear time history analysis, Pushover analysis, RNN & CNN*

Software Used : *SAP 2000, MATLAB*

Duration : **Sept'25 - Jul'26**

M.Tech Mini Project in *Comparison between seismic responses of regular and irregular buildings by static and dynamic method.*

Focus Area : *Vertically irregular steel frames with bigger floor plan at top stories.*

Status : **Completed**

Institution : *National Institute of Technical Teachers' Training & Research, Kolkata*

Project Supervisor : *Prof. Mithu Dey*

Methodology : *Response spectrum method & Equivalent static method*

Software Used : *STAAD.Pro(Connect Version)*

Duration : **Feb'25 - Jul'25**

B.Tech Thesis in *Optimization of grade of cement to the grade of concrete.*

Focus Area : *Concrete & cement grade*

Status : **Completed**

Institution : *Techno International Newtown*

Thesis Supervisor : *Dr. Sanjoy Das Neogi*

Duration : **Feb'22 - Jun'22**

SCHOLASTIC ACHIEVEMENTS

1. Recognized as the **University Topper** of the M.Tech batch (2024–2026) at the National Institute of Technical Teachers' Training and Research (NITTTR), Kolkata.
2. Recognized for **Technical Finesse** by *Narula Institute of Technology* during diploma tenure at Civil Engineering Department.

SKILLS

AutoCAD 2016 (2D & 3D)
STAAD.Pro(Connect Version)
MS Office
SAP 2000

POSITIONS OF RESPONSIBILITY

1. Served as an **Anchor** and **Volunteer** in **International Conference on Energy, Environmental and Green Technology** organized by *NITTTR KOLKATA*
2. Served as an **Anchor** and **Volunteer** in **International Conference on Global Climate Action: Strategies for a Sustainable Future 2025** organized by *NITTTR KOLKATA*
3. Served as an **Anchor** in **62 Foundation Day** organized by *NITTTR KOLKATA*
4. **Appointed as Maintenance Secretary of Gargi Hostel at NITTTR Kolkata** during M.Tech, **(2025 - 26)**.
5. **Represented NITTTR KOLKATA in 2nd National Wellbeing Conclave 2025 in IIT Bombay**

INDUSTRIAL TRAINING

Trainee in PWD Barasat, *Road construction and asphalt mixing*
Duration : **September 2021** (1 Month)

Trainee in PWD Barracpur, *Road construction (Flexible Pavement)*
Duration : **February 2019** (1 Month)

Parental Address	Kolkata – 700107, District : South 24 parganas West Bengal, India
Nationality	Indian
Date of Birth	November 27, 1997
Gender	Female
Languages spoken	English, Bengali, Hindi
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