

EDUCATION AND TRAINING

Degree/ Certificate	Institute/ University	Year of Passing	Performance
M. Tech	IEST Shibpur	2025	9.5 CGPA (Till 3 rd Sem)
B. Tech	Jalpaiguri Government Engineering College	2023	8.76 CGPA
Higher Secondary	Nava Nalanda Higher Secondary School	2019	88 %
Secondary	Nava Nalanda High School	2017	88.28%

PROJECTS**“Bursting force capacity prediction of post tensioned anchorage blocks undergoing corrosion” [MTech Thesis]**
[04/2024-Till Date]

- Modelling of Anchorage Block of water tank using various anti bursting reinforcement using ATENA
- Bursting of Rectangular Anchorage Block Undergoing Corrosion deterioration using ATENA
- Cracking the concrete and decreasing compressive strength to mimic realistic deterioration
- Retrofitting of Anchorage Block with FRP material
- Prediction of capacity of deteriorated model using machine learning

“Fire Resistance of structure”

[08/2023-12/2023]

- Analytical simulation of fire in conference room
- Case study of different fire related structural failures

“Use of Cement Kiln Dust as a mineral filler”

[06/2022-05/2023]

- Determination of the suitability of CKD as a substitute for existing mineral fillers
- This was done mainly by performing Marshall Stability tests
- Comparing the advantages with conventional use of lime

“Earthquake resistant design of G+5 RC building using Excel and STAAD software” in accordance with Indian Standard Codes

[06/2022-05/2023]

- Strong Column Weak beam concept
- Study of different failure scenarios from real life earthquakes like that of Bhuj Earthquake, Gujrat, India
- Ductile detailing according to IS 13920
- Comparing STAAD Dynamic analysis, with manual Equivalent Static method in Excel

“Design of Industrial Steel Truss Shed for a factory” in accordance with Indian Standard Codes

[01/2022-05/2022]

- Design and Detailing of Purlin, Rafter, Beam
- Detailing of joints

SCHOLASTIC ACHIEVEMENTS

		Year
Competitive Exams	GATE: Rank-6455	2023
	WBJEE: Rank-4964	2019

PUBLICATIONS

Presented a paper on “Importance of Spiral Bursting Reinforcement Modelling for Post Tensioned Anchorage Block of Large Diameter Circular Tank” in an International Conference (SRISTI 2025) conducted by ASCE at IIT Dhanbad, India which has also been accepted for publication in proceedings. [January 2025]

INTERNSHIPS/TRAINING

Irrigation and Waterways Department, West Midnapore	Visited Midnapore Anicut & Weir, Midnapore Main Canal, Ghatal Masterplan (River Protection wall), Sea Protection Wall (Sankarpur, East Midnapore)	(6 weeks) 2022
National Testing House	Building and construction materials testing (Bricks, Tiles, Cement, Soil)	(one week) 2022

SOFTWARE TECHNICAL SKILLS

STAAD Pro	SAP2000	ATENA	AutoCAD	MS Office
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EXTRA CURRICULARS

Project	Designed a project in the competitive event ICIC, organized within the college	2019
Writing	One article regarding earthquake, published in college magazine	2023