

## CURRICULUM VITAE

### **Debarghya Bose**

#### **Doctoral research scholar**

Building Technology & Construction Management (BTCM) Division  
Department of Civil Engineering, Indian Institute of Technology Madras,  
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### **EDUCATION**

#### **Ph.D. (Civil Engineering)**

Indian Institute of Technology Madras, Chennai, India, 600036

Research topic: Carbonation and Carbonation-Induced Corrosion in Steel-Cementitious Systems with Supplementary Cementitious Materials

**CGPA: 10 (Till 1<sup>st</sup> sem)**

*July 2025-  
present*

#### **M. TECH. (Structural Engineering)**

Indian Institute of Engineering Science and Technology, Shibpur, Howrah, India, 711103

Project report: Bursting force capacity prediction of post tensioned anchorage blocks undergoing corrosion.

Fire Resistance of structure

**CGPA: 9.67**

*June 2025*

#### **B. TECH (Civil Engineering)**

Jalpaiguri Government Engineering College, Jalpaiguri, India, 411038.

Project: Use of cement kiln dust as a mineral filler

Earthquake resistant design of G+5 RC building using Excel and STAAD software

Design of industrial steel truss shed for a factory

**CGPA: 8.76**

*Jul 2023*

### **RESEARCH INTEREST**

- Prestressed Concrete
- Corrosion detection
- Repair and Retrofitting
- Bond deterioration and mechanical performance

### **SCHOLASTIC ACHIEVEMENTS**

- GATE: Rank- 7782 *2024*
- GATE: Rank- 6455 *2023*
- WBJEE: Rank- 4964 *2019*

### **TEACHING EXPERIENCE**

- TA duty for construction materials lab (CE3410) *Jul 2025*
- TA duty for construction materials lab (CE5090) *Jan 2026*

## CONFERENCE AND WORKSHOP ATTENDED

- A week on Technologies for Low Carbon and Lean Construction *Jan 2026*
- International Conference on Condition Assessment, Rehabilitation & Retrofitting of Structures (CARRS 2025), IIT Roorkee, India *Dec 2025*
- International Conference (SRISTI 2025) conducted by ASCE at IIT Dhanbad, India *Jan 2025*

## INTERNSHIP AND TRAINING

- Irrigation and Waterways Department, West Midnapore *2022*
- National Testing House *2022*

## SOFTWARE TECHNICAL SKILLS

STAAD PRO, SAP 2000, ATENA, AutoCAD, MS Office

## COURSES UNDERTAKEN AT IITM

Modern Construction Materials (CE5010) *Jul – Nov*  
Maintenance and Rehabilitation of Constructed Facilities (CE5120) *2025*  
Corrosion Engineering (MM5320)  
Characterization of Construction Materials (CE5950) *Jan – May*  
Admixtures and Special Concrete (CE5115) *2026*

## REFERENCES

### **Dr. Radhakrishna G Pillai**

Professor at Dept. of Civil Eng.,  
Indian Institute of Technology Madras  
Chennai, India- 600 036

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### **Dr. Soumya Bhattacharjya**

Associate Professor at Dept. of Civil Eng.,  
Indian Institute of Engineering Science and  
Technology, Shibpur  
Howrah, India, 711103

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