

## **Publication Details**

### **Department of Civil Engineering:**

**Name of the Faculty: Mr. Sunil Priyadarshi**

Designation: Assistant Professor

Department: Civil Engineering



## **Journal Articles**

- **Ashes Banerjee, Sunil Priyadarshi, & Samir Kumar.** (2024). **Proposing a characteristic length definition for flow characterization in porous media: A methodology for estimating hydraulic radius.** *Journal of Mines, Metals & Fuels*, 72(7), 201–210. <https://doi.org/10.18311/jmmf/2023/43591>

## **Book Chapters**

- **Samir Kumar, Sunil Priyadarshi, & Abir Sarkar.** (2025). **Innovative solutions for sustainable construction: A comprehensive study on environmental challenges, structural optimization, and performance evaluation of bubble deck slabs in concrete construction.** In *Recent Advancements in Computational Intelligence and Design Engineering* (pp. 123–135). CRC Press. <https://doi.org/10.1201/9781003595745>
- **Samir Kumar, Sunil Priyadarshi, & Abir Sarkar.** (2025). **Review paper on eccentric wings in bridge deck.** In *Recent Advancements in Computational Intelligence and Design Engineering* (pp. 136–150). CRC Press. <https://doi.org/10.1201/9781003595745>
- **Soumen Biswas, Palash Routh, & Sunil Priyadarshi.** (2025). **A case study on soil stabilization using bitumen emulsion and cement.** In *Interdisciplinary Research in Science and Engineering* (pp. 151–165). Integrated Publications. <https://doi.org/10.62778/int.book.478>
- **Sunil Kumar Sarder, Arka Manna, & Sunil Priyadarshi.** (2025). **Exploring sustainable practices for stabilization of black cotton soil with sugarcane bagasse ash.** In *Interdisciplinary Research in Science and Engineering* (pp. 166–180). Integrated Publications. <https://doi.org/10.62778/int.book.478>

- **Sunil Priyadarshi & Samir Kumar.** (2025). **Ground improvement by stone column: A crucial component for infrastructure development in India.** In *Interdisciplinary Research in Science and Engineering* (pp. 181–195). Integrated Publications. <https://doi.org/10.62778/int.book.478>
- **Sudhashil Purkait & Sunil Priyadarshi.** (2025). **Performance characteristics of reclaimed asphalt pavement (RAP) materials in construction of flexible pavements.** In *Interdisciplinary Research in Science and Engineering* (pp. 196–210). Integrated Publications. <https://doi.org/10.62778/int.book.478>
- **Sunil Kumar Sarder & Sunil Priyadarshi.** (2024). **Investigating sustainable soil stabilization techniques using sugarcane bagasse ash.** In *Synergy in Science and Engineering: An Integrative Approach* (pp. 211–225). Akinik Publisher. <https://doi.org/10.22271/ed.book.2972>

## **Books**

- **Abir Sarkar, Ashes Banerjee, Nilanjan Tarafder, Avishek Adhikary, Sunil Priyadarshi, & Debanjali Adhikary.** (2023). **Enhancing the efficient utilization of reclaimed asphalt pavement (RAP) in granular sub base for road construction: A recent trend.** Swami Vivekananda University. <https://zenodo.org/records/11208122>