

## Publication Details

### Department of Civil Engineering:

**Name of the Faculty:** Mrs. Debanjali Adhikary

Designation: Assistant Professor

Department: Civil Engineering



## **Journal Articles**

- **Sourav Ghosh & Debanjali Adhikary.** (2024). **Review on the potential of biomass briquettes ash (BBA), used as pozzolan in cement, as an alternative to fly ash (FA).** *Journal of Clean Construction and Recycling*, 3(1), Article 1. ISSN: 2292-1399. Retrieved from [https://iaeme.com/Home/article\\_id/JCCR\\_03\\_01\\_001](https://iaeme.com/Home/article_id/JCCR_03_01_001)

## **Book Chapters**

- **Sumit Basu & Debanjali Adhikary.** (2025). **A comprehensive review on the utilization of rice husk ash as a partial substitute for cement in concrete.** In *Recent Advancements in Computational Intelligence and Design Engineering* (pp. 45–60). CRC Press. ISBN: 978-10-3298-036-2. <https://doi.org/10.1201/9781003595745>
- **Sankar Bhattacharyya & Debanjali Adhikary.** (2025). **A review on performance improvement of differential pressure flowmeter.** In *Recent Advancements in Computational Intelligence and Design Engineering* (pp. 61–75). CRC Press. ISBN: 978-10-3298-036-2. <https://doi.org/10.1201/9781003595745>
- **Sourav Ghosh & Debanjali Adhikary.** (2025). **Determining the optimum, balanced, and permissible percentage of sawdust (biomass) briquettes ash (SBA) use as partial replacement of cement.** In *Interdisciplinary Research in Science and Engineering* (pp. 80–95). Integrated Publications. ISBN: 978-93-5834-191-1. <https://doi.org/10.62778/int.book.478>
- **Tapas Bera & Debanjali Adhikary.** (2025). **Analysis and design of a G+5 storied R.C.C. framed vertically irregular structure with infill wall (brick wall) & shear wall (lift wall).** In *Interdisciplinary Research in Science and Engineering* (pp. 96–110). Integrated Publications. ISBN: 978-93-5834-191-1. <https://doi.org/10.62778/int.book.478>

- **Pritam Sadhukhan & Debanjali Adhikary. (2025). Implementation of sugarcane bagasse ash in self-compacting concrete for improved sustainability and performance.** In *Interdisciplinary Research in Science and Engineering* (pp. 111–125). Integrated Publications. ISBN: 978-93-5834-191-1. <https://doi.org/10.62778/int.book.478>
- **Debanjali Adhikary. (2025). Role of ammonia volatilization and phosphorus transformation on wetland rice fields.** In *Interdisciplinary Research in Science and Engineering* (pp. 126–140). Integrated Publications. ISBN: 978-93-5834-191-1. <https://doi.org/10.62778/int.book.478>
- **Debanjali Adhikary. (2024). Investigating sources, driving forces, and potential health risks of nitrate in groundwater for safe water supply.** In *Multidisciplinary Insights in Modern Engineering* (pp. 150–165). Akinik Publisher. ISBN: 978-93-6135-058-0. <https://doi.org/10.22271/ed.book.3064>
- **Abir Sarkar, Ashes Banerjee, Nilanjan Tarafder, Avishek Adhikary, Sunil Priyadarshi, & Debanjali Adhikary. (2023). Heavy metal contamination levels in industrial areas near Durgapur: A rising concern.** In *Integrated Perspectives in Civil Engineering: Geotechnical, Structural, Water Resources, and Environmental Aspects* (pp. 200–215). Swami Vivekananda University. ISBN: 978-93-5967-828-3. Retrieved from <https://zenodo.org/records/11208122>
- **Abir Sarkar, Ashes Banerjee, Nilanjan Tarafder, Avishek Adhikary, Sunil Priyadarshi, & Debanjali Adhikary. (2023). Laterite soil: A potential cost-effective and sustainable ash pond liner.** In *Integrated Perspectives in Civil Engineering: Geotechnical, Structural, Water Resources, and Environmental Aspects* (pp. 216–230). Swami Vivekananda University. ISBN: 978-93-5967-828-3. Retrieved from <https://zenodo.org/records/11208122>
- **S. R. Mondal, S. Pal, D. Hazra, H. Chaudhuri, & M. K. Mandal. (2018). Dynamic stability of rural road embankment founded on electro-kinetically stabilized soft soil subgrade.** *International Journal of Civil Engineering and Technology*, 9(1), 123–134. ISSN: 2249-8001.

## **Books:**

- Abir Sarkar (Ed.), Bishnu Pada Bose, Ashes Banerjee, Nilanjan Tarafder, Avishek Adhikary, Debanjali Adhikary, Sunil Priyadarshi, Samir Kumar, & Sarnali Sarkar (Eds.). (2024). **Recent Advances in Civil Engineering: Smart Cities and Artificial Intelligence**. Swami Vivekananda University. <https://zenodo.org/record/11208122>
- Abir Sarkar, Bishnu Pada Bose, Ashes Banerjee, Nilanjan Tarafder, Avishek Adhikary, Debanjali Adhikary, Sunil Priyadarshi, Samir Kumar, & Sarnali Sarkar. (Eds.). (2024). **Integrated Perspectives in Civil Engineering: Geotechnical, Structural, Water Resources, and Environmental Aspects**. Swami Vivekananda University. <https://zenodo.org/record/11208122>