

## Publication Details

### Department of Civil Engineering:

Name of the Faculty: **Dr. Ashes Banerjee**

Designation: Assistant Professor

Department: Civil Engineering



### **Journal Articles**

- **Ashes Banerjee, Ayan Chatterjee, Ashwin Singh, Srinivas Pasupuleti, & Venkatesh Uddameri.** (2024). **A risk assessment framework utilizing bivariate copula for contaminant monitoring in groundwater.** *Environmental Science and Pollution Research.* <https://doi.org/10.1007/s11356-02434417-0>
- **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>
- **Purushottam Agrawal, Jitendra Sinha, Nilima Jangre, Fanesh Kumar, Kamalkant, Alok Sinha, Ashwin Singh, Ashes Banerjee, Akella Satya Venkatesh, & Srinivas Pasupuleti.** (2025). **Developing an efficient and optimized irrigation plan under varying water-supply regimes.** *Ain Shams Engineering Journal,* 16(2), 103272. <https://doi.org/10.1016/j.asej.2025.103272>

### **Book Chapters**

- **Santanu Karmakar, Sk Md Asfak, & Ashes Banerjee.** (2025). **A review on enhancing soil index properties through the addition of stone dust mix.** In *Recent Advancements in Computational Intelligence and Design Engineering* (pp. 123–135). CRC Press. <https://doi.org/10.1201/9781003595745>
- **Rakhal Jana, Bushnu Pada Bose, & Ashes Banerjee.** (2025). **Optimizing furrow irrigation for sustainable agriculture in a changing world.** In *Recent Advancements in Computational Intelligence and Design Engineering* (pp. 136–150). CRC Press. <https://doi.org/10.1201/9781003595745>

- **Ashim Roy, Abir Sarkar, & Ashes Banerjee. (2025). Optimized water supply network design for rural West Bengal: A case study.** In *Recent Advancements in Computational Intelligence and Design Engineering* (pp. 151–165). CRC Press.  
<https://doi.org/10.1201/9781003595745>
- **Narayan Chandra Saha, Joy Kumar Mondal, & Ashes Banerjee. (2025). Applicability of random forest model for predicting groundwater table in Birbhum District, West Bengal, India.** In *Recent Advancements in Computational Intelligence and Design Engineering* (pp. 166–180). CRC Press.  
<https://doi.org/10.1201/9781003595745>
- **Santanu Karmakar, Rahul Kumar Shaw, & Ashes Banerjee. (2025). Investigating the particle size distribution of soil and rock dust for civil engineering applications.** In *Interdisciplinary Research in Science and Engineering* (pp. 45–60). Integrated Publications. <https://doi.org/10.62778/int.book.478>
- **Santanu Karmakar, Arbaz Ali, Ashes Banerjee, & Subhabrata Mondal. (2025). Plasticity and free swell characteristics of soil and stone dust.** In *Interdisciplinary Research in Science and Engineering* (pp. 61–75). Integrated Publications. <https://doi.org/10.62778/int.book.478>
- **Santanu Karmakar, Swagata Das, & Ashes Banerjee. (2025). Compaction characteristics of soil and stone dust: An investigation into civil engineering applications.** In *Interdisciplinary Research in Science and Engineering* (pp. 76–90). Integrated Publications. <https://doi.org/10.62778/int.book.478>
- **Santanu Karmakar, Progoti Chakraborty, & Ashes Banerjee. (2025). Evaluating the impact of stone dust on the California bearing ratio (CBR) of soil-stone dust mixtures.** In *Interdisciplinary Research in Science and Engineering* (pp. 91–105). Integrated Publications. <https://doi.org/10.62778/int.book.478>
- **Sk Md Asfak, Koyel Roy, Ashes Banerjee, & Abir Sarkar. (2025). Effect of fine sand on the strength properties of laterite soil: A geotechnical investigation.** In *Interdisciplinary Research in Science and Engineering* (pp. 106–120). Integrated Publications. <https://doi.org/10.62778/int.book.478>
- **Rejina Yasmin, Abir Sarkar, Ashes Banerjee, & Nilanjan Tarafder. (2024). Dynamic seismic analysis of multi-storied buildings having different heights for all seismic zones in India.** In *Synergy in Science and Engineering: An Integrative Approach* (pp. 210–225). Akinik Publisher. <https://doi.org/10.22271/ed.book.2863>

## 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>
- **Dr. Ranjan Kumar, Abhishek Dhar, Dr. Ashes Banerjee and Arunima Mahapatra** (Eds.). (2024). **Advances in Computational Solutions: Integrative Approaches and Applications**. Integrated Publisher. <https://doi.org/10.62778/int.book.450>
- **Dr. Ranjan Kumar, Abhishek Dhar, Dr. Ashes Banerjee and Dr. Subhabrata Mondal**. (Eds.). (2024). **Scientific Frontiers: Sustainable Practices and Technologies**. Akinik Publisher. <https://doi.org/10.22271/ed.book.2938>
- **Dr. Ranjan Kumar Mr. Abhishek Dhar Dr. Ashes Banerjee Dr. Arnab Das** (Eds.). (2024). **Innovative Solutions and Sustainable Development: Bridging Technology and Science for a Greener Future**. Scientific International Publishers. <https://doi.org/10.5281/zenodo.14676942>
- **Dr. Ranjan Kumar, Abhishek Dhar, Dr. Ashes Banerjee and Dr. Arnab Das** (Eds.). (2024). **Multidisciplinary Insights in Modern Engineering**. Akinik Publisher. <https://doi.org/10.22271/ed.book.3064>
- **Dr. Ranjan Kumar, Abhishek Dhar, Dr. Ashes Banerjee and Dr. Arnab Das** (Eds.). (2024). **Research Methodologies in Engineering and Applied Science**. Bright Sky Publications. <https://doi.org/10.62906/bs.book.209>
- **Dr. Ranjan Kumar, Abhishek Dhar, Dr. Ashes Banerjee and Dr. Kazi Hasibur Rahman**. (Eds.). (2024). **Interdisciplinary Research in Science and Engineering**. Integrated Publications. <https://doi.org/10.62778/int.book.478>
- **Dr. Ranjan Kumar, Abhishek Dhar, Dr. Ashes Banerjee and Arunima Mahapatra** (Eds.). (2024). **Frontiers of Engineering Innovation: Interdisciplinary Approaches and Applications**. Bluerose, ISBN: 9789364528603