

Name: Vikalp Saxena

Email ID: vs154@snu.edu.in

Area of research: Simultaneous removal of carbon, nitrogen, and phosphorus from landfill leachate using biological reactors.

Profile Summary:

My research interests are mainly focused on recent advancements in wastewater treatment reactor design, its performance, and optimization. I am working under the guidance of Dr. Susant Kumar Padhi in Environmental Engineering Lab under the Department of Civil Engineering at Shiv Nadar Institute of Eminence. Presently, my work focus on development of different biological reactors such as Aerobic Granular Reactor and Hybrid Bioreactor for the treatment of landfill leachate. I am always eager to get involved in challenging projects that would help me evolve in this emerging industry. With a good academic background and hands-on experience in a wide variety of technologies, I aim to be a part of an exciting career.

Education

Year	Degree (Branch), Name of Institution
2019	Ph.D. (Environmental Engineering, Pursuing)
2018	M. Tech. (Environmental & Science Engineering), Harcourt Butler Technical University, Kanpur, U.P.
2015	B. Tech. (Civil Engineering), Galgotias College of Engineering & Technology, Greater Noida, U.P.

Research Publications

Publications in peer-reviewed journals

1. Saxena, V., Padhi, S. K., & Jhunjunwala, U. (2021). Treatment of domestic sewage and leachate using a moving bed hybrid bioreactor. Environmental Technology & Innovation, 24, 101998. (IF- 5.236, Published)

2. Saxena, V., Padhi, S., Bhatt, R., & Pattanaik, L. (2022). Simultaneous removal of carbon, nitrogen, and phosphorus from landfill leachate using an aerobic granular reactor. *Environmental Technology & Innovation*. (IF- 5.236, Revision submitted)

3. Saxena, V., Padhi, S., Dikshit, P., & Pattanaik, L. (2022). Recent developments in landfill leachate treatment: Aerobic granular reactor and its future prospects. *Environmental Nanotechnology, Monitoring & Management*. (IF- 5.65, Published)

Publications in reputed conference proceedings

Paper presented in national/international conferences

1. Saxena, V., PADHI, S., & Bhatt, R. Simultaneous removal of carbon, nitrogen, and phosphorus from landfill leachate using an aerobic granular reactor. 2nd International Conference on CHEMICAL, BIO & ENVIRONMENTAL ENGINEERING (CHEMBIOEN-2021). NIT Jalandhar, August 20-22, 2021.

Work Experience

Duration	Designation, Name of employer
Oct 2015 to June 2016	Structural Engineer, MPIL, Lucknow
July 2018 to July 2019	Assistant Professor, Rama University, Kanpur, UP

Awards and Recognitions:

1. Saxena, V., Padhi, S. K., & Jhunjhunwala, U. Co-treatment of domestic sewage and leachate using a moving bed hybrid bioreactor. International Conference on Biotechnology for Sustainable Agriculture, Environment and Health (BSAEH-2021). NIT Jaipur, April 04-08, 2021. **(BEST POSTER AWARD)**.