Debolina Basu, Ph.D., M.Tech., B.E.

ENV 05, Department of Civil Engineering
Motilal Nehru National Institute of Technology Allahabad
Uttar Pradesh-211004
✉ basud@mnnit.ac.in
☎ 91-0532-2271303

Specialization

Major : Civil Engineering

Minor : Environmental Engineering

Areas of Research

- Lab-scale studies and soft-computing techniques - To identify, quantify and remove pollutants of industrial origin; study the behavior and performance evaluation of conventional treatment units
- Air quality assessment

Professional Experience

Present: Assistant Professor, Department of Civil Engineering, Motilal Nehru National Institute of Technology Allahabad, India

Past: Assistant Professor, Department of Civil Engineering, Dr B R Ambedkar National Institute of Technology Jalandhar, Punjab, India

Courses Taught: Solid and Hazardous Waste Management (UG & PG); Ecology and Environment (UG); Environmental Engineering (UG); Elements of Remote Sensing and GIS (UG)

Professional Service: *Reviewed manuscripts for* Bioresource Technology (Elsevier), Environmental Science and Pollution Research (Springer), Environmental Technology (Taylor & Francis), Bioprocess and Biosystems Engineering (Springer)

Peer-Reviewed International Publications

- **Debolina Basu** and S. R. Asolekar, "Evaluation of Substrate Removal Kinetics for UASB Reactors Treating Chlorinated Ethanes", *Environmental Science and Pollution Research*, (ISSN: 0944-1344) Springer-Verlag, Heidelberg, Germany , Vol. 19, No. 6, 2012, pp. 2419-2427

- **Debolina Basu** and S. R. Asolekar, "Effect of Carbon Sources on the Removal of 1,1,2 Trichloroethane and 1,1,2,2 Tetrachloroethane in UASB reactor", *Journal of Environmental Science and Health, Part A (Toxic/Hazardous Substance & Environmental Engineering)*, (ISSN: 1093-4529) Taylor & Francis, Philadelphia, PA, USA , Vol. 47, No. 4, 2012, pp. 638-644

- **Debolina Basu** and S. R. Asolekar, "Performance of UASB reactor in the biotreatment of 1,1,2 Trichloroethane", *Journal of Environmental Science and Health, Part A (Toxic/Hazardous Substance & Environmental Engineering)*, (ISSN: 1093-4529) Taylor & Francis, Philadelphia, PA, USA, Vol. 47, No. 2, 2012, pp. 267-273, Citations:1

- **Debolina Basu** and S. K. Gupta, "Performance Of Upflow Anaerobic Sludge Blanket (UASB) Reactor Treating Simulated Wastewaters Containing 1,1,2 Trichloroethane And 1,1,2,2 Tetrachloroethane", *International Journal of Environment and Waste Management*, (ISSN: 1478-9876) Inderscience Publishers, Switzerland, Vol. 9, Nos. 1-2, 2012, pp. 181-190

- **Debolina Basu** and S. K. Gupta, "Biodegradation of 1,1,2,2-tetrachloroethane in Upflow Anaerobic Sludge Blanket (UASB) reactor", *Bioresource Technology*, (ISSN: 0960-8524) Elsevier, U.K., Vol. 101, No. 1, 2010, pp. 21-25, Citations:2

- **Debolina Basu**, R.K. Srivastava and R. C. Vaishya, "Air pollution Impact Assessment for Indian Highway Project - A GIS based study", *Management of Environmental Quality: An International Journal*, (ISSN: 1477-7835) Emerald Group Publishing Ltd., U.K., Vol. 19, No. 5, 2008, pp. 510-519, Citations:1

Book Chapters Contributed

- S. K. Gupta, **Debolina Basu**, Y-T. Hung and L. K. Wang (2009); Chapter 2: Waste Treatment in the Iron and Steel Manufacturing Industry, Wang, L.K., Shammas, N.K., Hung, Y-T. (Eds.), In: *Waste Treatment in the Metal Manufacturing, Forming, Coating and Finishing Industries*, (ISBN: 978-1-4200-7223-5) CRC Press, Boca Raton, FL, pp. 37-70

- S. K. Gupta, **Debolina Basu**, Y-T. Hung and L. K. Wang (2009); Chapter 2: Waste Treatment in the Iron and Steel Manufacturing Industry, Wang, L.K., Hung, Y-T., Shammas, N. K. (Eds.), In: *Handbook of Advanced Industrial and Hazardous Wastes Treatment*, (ISBN: 978-1-4200-7219-8) CRC Press, Boca Raton, FL, pp. 37-70