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Dr. Rumana Afrin

Associate Professor, Department of Civil Engineering & Head of Dept.

ROOM: 712 PABX: 3501 Email: rumana@ce.uiu.ac.bd * Home * Faculty Profiles

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Education

Ph.D. (Env), Bangladesh University of Engineering and Technology (BUET) M.Sc. Engg. (Env), Bangladesh University of Engineering and Technology (BUET), 2008 B.Sc. Engg. (Civil), Bangladesh University of Engineering and Technology (BUET), 2003

Research Interest

Research Interest Areas: * Wetland * Municipal Waste management * Water quality * E-Waste management * Ground water

Undergraduate Thesis Supervision * A Study on Current Scenario of Groundwater Level of Some Selected Area of Dhaka City. * A Comprehensive Study on Ambient Air Pollution in Three Specific Districts of Bangladesh and Its Health Impact on Human life. * A Microscale Study on The Effect of Urban Heat island in Dhaka: Cause, Impact and Mitigation. * A Study to Design an Activated Sludge System for High Strength Wastewater. * Comparative analysis of pyrolysis yields and distillation of liquid yielded from different solid waste. * A Comparative Study on Impurities removal efficiency of Hatirjheel lake using selected media in Horizontal Constructed Wetland. * A Study on Rainwater Harvesting: An alternative source of water for domestic use. * Nitrogen Removal by Activated Sludge Process for treating High Strength Wastewater. * A Comprehensive study on environmental impact and Health effect due to Tannery wastes in Hazaribagh Canal. * A Comparative Cost Analysis of Trenchless versus Traditional Open Trenching System for the Water Pipeline Construction. * Assessment of Phosphorus removal performance from Municipal wastewater in Vertical and Horizontal Constructed wetland systems when arranged in Series. * A Study on the Influence of Different Unconventional Media in Horizontal Constructed Wetlands for Enhancing the Removal of Ammonia from Municipal Wastewater. * Impacts of Noise Pollution on the Residents Quality of life in Dhaka City. * Investigation of industrial waste management of Tejgaon I/A Dhaka. * A comprehensive study on present condition of water supply in different zones of Dhaka city. * Assessment of drinking water quality and sanitary system in flood shelter near Dhaka city. * A study on the current solid waste management system that practices in Dhaka north city corporation area. * Anaerobic digestion of municipal sewage sludge with different substrates. * A study on environmental impact and health effect due to brick Kiln in different zones of Dhaka city. * Condition of basic services-water supply, sanitation and waste management in slums of Chittagong city. * Study on Building Sanitation Situation in Urban Center. * Observation of water loss of a water distribution network under Dhaka WASA in DMA 504 (Gulshan-2). * Analysis of District Metered Area DMA 808 (Kalachanpur, Nadda, Kuril) based on water tightness test. * A Comparative Study on Impurities Removal Efficiency of Hatirjheel lake using Selected media by Floating Constructed Wetland. * A comprehensive study of health Risks due to Vehicular pollution in Dhaka city. * Comparative Study of Pollutant Removal Efficiency between Horizontal Flow and Vertical flow Wetland System using Stone Chips Media for Municipal Wastewater. * Study on spatial variations of the air pollutants over the period in some specific areas of

Bangladesh. * Assessment of Organic Nitrogen removal performance from Municipal wastewater in Vertical and Horizontal Constructed wetland systems when arranged in Series.

Experience

Assistant Professor(January 2020 â€" Present), Department of Civil Engineering, United International University, Dhaka, Bangladesh. Assistant Professor(April 2008 â€" December 2019), Department of Civil Engineering, Ahsanullah University of Science and Technology, Dhaka, Bangladesh. Lecturer(October 2004 â€" March 2008), Department of Civil Engineering, Ahsanullah University of Science and Technology, Dhaka, Bangladesh. Lecturer(May 2003 â€" October 2004), Department of Civil Engineering, Stamford University, Dhaka, Bangladesh.

Courses Taken

Undergraduate Courses: * Theroretical Courses * Engineering Mechanics * Surveying * Fluid Mechanics * Water Supply Engineering * Wastewater and Sanitary Engineering * Solid and Hazardous Waste Management * Building Sciences & Services-II, Plumbing * Practical courses * Civil Engineering Drawing * Computer Aided Drafting * Environmental Engineering laboratory * Water Resources Engg Sessional–II

Postgraduate Courses: Theory of Water treatment Theory of Sewage Treatment Municipal and Rural Sanitation Water Pollution and its Control Water Supply Engineering and Design Environmental Sanitation

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