

# Sustainable water/ wastewater treatment: A global perspective

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## Overview

One of the fastest emerging needs nationally and internationally in the 21<sup>st</sup> century is the need for clean water. The available freshwater reserves are being fast depleted globally due to rapid urbanization and population increase. On the other hand, due to extensive industrialization, novel contaminants are being introduced into our water systems. In order to meet the growing global demand for clean water, there is a great need to develop efficient water/wastewater treatment systems which provide solutions to emerging contaminants, and to develop innovative strategies for water use/reuse. This course will provide a thorough review of water treatment and wastewater treatment technologies with a special emphasis on sustainable arsenic removal systems. The participants will gain insights into theoretical and practical aspects of various treatment technologies through lectures and tutorials.

<b>Course</b>	<b>January 23, 2017 to February 1, 2017</b> <b>Number of participants for the course will be limited to fifty.</b>
<b>You Should Attend If...</b>	<ul style="list-style-type: none"><li>▪ you are an executive, engineer, researcher from industry or government organizations including R&amp;D laboratories.</li><li>▪ you are a student at all levels (BTech/MSc/MTech/PhD) or a faculty from academic or technical institutions.</li></ul>
<b>Course Registration Fees</b>	The participation fees for taking the course is as follows: <b>Participants from abroad : US \$500</b> <b>Course fee for non-students, i.e., participants from Industry/ Research Organizations: Rs. 2000/-</b> <b>Course fee for student (Undergraduate/ Postgraduate) participants: Rs. 500/-</b> <b>Course fee will be made half for SC/ST students.</b> The above fees include all instructional materials, computer use for tutorials and assignments, laboratory equipment usage charges. The individual course participants will have to borne the charges for their food, transport and accommodation separately. The external participants will be provided accommodation on payment basis.

## Course Faculty



Prof. Arup Kumar Sengupta currently works as the P.C. Rossin Professor at the Lehigh University, USA. The fundamental tenet of his research mission is to apply principles of physical chemistry and chemical engineering in understanding, developing and implementing sustainable engineering solutions toward prevention of environmental risks. He has received over sixty research grants totaling approximately 7 million US dollars from federal agencies (NSF, USEPA, USDA, Department of State and DoD), Commonwealth of Pennsylvania, independent non-profit research organizations and foundations (e.g., AWWARF, NCIIA), and private industries. He bagged several national and international awards including Fullbright-Nehru Senior Fellowship for developing sustainable water technology in Southeast Asia; Lawrence K. Cecil Award from the American Institute of Chemical Engineers for outstanding contributions in the field of environmental engineering; Intel Environmental Award (from over 700 nominations from more than sixty countries) for his ongoing arsenic and fluoride mitigation work in developing countries.

## Course Coordinator

**Dr. Abhijit Chatterjee**

Phone: 9774461727

Email: abhijitchatterjee1729@gmail.com

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<http://www.nita.ac.in/NITAmain/GIAN/GIAN.html>