

Environmental Chemistry

Overview

The course 'Environmental Chemistry' will introduce the basics of the field, covering various legacy (heavy metals, organic pollutants) and emerging contaminants (endocrine disruption, plastics debris). The course will combine the fundamentals of environmental chemistry (analysis, properties of chemicals and radionuclides) with case studies to illustrate their environmental distribution. Regular assignments will help the students to apply the course content and improve learning and retention of new materials. Some material will be assigned in groups to facilitate discussion and increase reflection on the course content. Assessment will also include a mid-term and a final exam.

Course Information	Dates – 17 th to 28 th July, 2023 Environmental Chemistry										
You Should Attend If...	<ul style="list-style-type: none">• Environmental Professionals, Regulatory agencies personnel, engineers.• Student students at all levels (BTech/MSc/MTech/PhD) or Faculty from reputed academic institutions and technical institutions. <p>Number of participants for the course will be limited to Forty.</p>										
Fees	<p>The participation fees for taking the course is as follows:</p> <table><tr><td>Participants from abroad</td><td>: US \$ 500</td></tr><tr><td>Students</td><td>: INR 2000</td></tr><tr><td>Faculty</td><td>: INR 5000</td></tr><tr><td>Industry / Research Organizations</td><td>: INR 30000</td></tr><tr><td>Government Organizations</td><td>: INR 10000</td></tr></table> <p>The above fee include all instructional materials, computer use for tutorials and assignments, laboratory equipment usage charges, 24 hr free internet facility.</p> <p>Modes of payment: Online transfer: Click here to pay: https://elearn.nptel.ac.in/gian/</p>	Participants from abroad	: US \$ 500	Students	: INR 2000	Faculty	: INR 5000	Industry / Research Organizations	: INR 30000	Government Organizations	: INR 10000
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Accommodation	<p>The participants may be provided with hostel accommodation, depending on availability, on payment basis. Request for hostel accommodation may be submitted through the link: http://hosteldine.iitm.ac.in/iitmhostel/</p>										

Registration Procedure

Please follow the following steps for the registration:

1. Go to GIAN website (<http://www.gian.iitkgp.ac.in/GREGN/index>) First time users need to register and pay a one-time fee of INR 500 /
2. Enroll for the course: Environmental Chemistry. Once you enroll for the course, an Enrollment/Application number will be generated, and the course coordinators will be notified.

The Faculty



Dr. Rainer Lohmann is a Professor of Oceanography in the Graduate School of Oceanography in the University of Rhode Island. He is also currently the Director, Administrativ Core and Lead on URI Superfund Research Center - STEEP (Sources, Transport, Exposure and Effects of PFAS). With funding from NSF, NIH, SERDP and private foundations, his group conducts research into the sources, transport, and bioaccumulation of anthropogenic pollutants. Lohmann initiated a global effort to monitor organic contaminants in the waters of the world, termed AQUA-GAPS, which started field trials in 2016. Within URI, Lohmann offers graduate classes in “Environmental Organic Chemistry”, “Organic Geochemistry” and “Introduction to Marine Pollution”. Dr. Lohmann has published over 150 peer-reviewed publications and serves as Editor for Environmental Toxicology and Chemistry. He is member of the Executive Committee of the U.S. EPA Board of Scientific Counselors, and sits on the Editorial Boards for Environmental Science and Technology, Environmental Pollution and Environmental Science and Technology Letters, among others.



Dr. R. Ravikrishna is a Professor in the Department of Chemical Engineering at Indian Institute of Technology Madras, Chennai. His current research interests include fate and transport of pollutants in the environment, measurement and modelling of release of bioaerosols from solid waste; aerosol dynamics in urban environments. Dr. Ravikrishna teaches elective courses on environmental quality: monitoring and analysis.

Course Co-ordinator

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<https://che.iitm.ac.in/rrk/>; <https://web.uri.edu/steep/meet/rainer-lohmann/>