

OBJECTIVES

Toxic metals are playing a greater role in changed scenario due to its presence in soil, air and water at appreciable quantity. The group of most concern toxic metals includes mercury, lead, cadmium, aluminium, and arsenic. These metals are detrimental to health for a variety of reasons and unfortunately are prevalent in the environment due in considerable part to the activities of modern society. Individuals may be exposed occupationally or due to factors such as consuming contaminated food and water. Thus, it is severely affecting the health of living beings and deteriorating the quality of life. Hence, there is a great need to identify and quantify the toxic metals in the environments which will help to develop suitable measures for mitigation.

The objective of this training program is to impart basics and advanced knowledge on analytical instrumentation techniques for instrumental methods and analysis of environmental in-organic contaminants using sophisticated instrumentation, which is needed in monitoring of environmental pollution and in investigation and mitigation of related environmental issues. Providing theoretical and analytical aspects for qualitative and quantitative analysis of organic contaminants in environmental samples. Strengthening analytical capabilities on analysis of trace organic contaminants in environmental samples.

COURSE CONTENTS

- Importance of environmental monitoring
- Basics of Spectroscopy
- Sample Preparation Techniques for Inorganic Contaminants
- Theory and principles of Ion Chromatography (IC)
- Theory and principles of Direct Mercury Analyzer (DMA)
- Theory and principles of Atomic Absorption Spectrometry (AAS)
- Theory and principles of Inductively Couple Plasma-Optical Emission Spectrometer (ICP-OES)
- Theory and principles of Inductively Couple Plasma- Mass Spectrometry (ICP-MS)
- Practical aspects for analysis of organic contaminants using IC, DMA, AAS, ICP-OES/MS

MODE OF TRAINING: Online training through MS Team comprising Live lectures, Interactions, Q&A session, etc.

REGISTRATION FEE

- For Sponsored/Employed/Self Payment candidates, etc.: **Rs. 15,000/- (including GST)**
- **Fee will be paid online through SBI Collect link as mentioned below:**
<https://www.onlinesbi.com/sbicollect/icollecthome.htm>
- Instructions for remittance of fee through State Bank Collect is shown below:
State of Corporate / Institution: "MAHARASHTRA"
Type of Corporate / Institution: "GOVT. DEPARTMENT"
GOVT Department Name: "NATIONAL ENVIRONMENTAL ENGINEERING RESEARCH INSTITUTE"
Payment Category: "WEBINAR / TRAINING PROGRAM REGISTRATION FEE"

NOTE:- Kindly send SBI Collect Fee receipt on email hv_singh@neeri.res.in for confirmation

CERTIFICATE OF PARTICIPATION: Certificate of Participation will be issued on successful completion.

LAST DATE OF REGISTRATION: January 29,2022

DIRECTOR	MENTOR	PROGRAM CO-ORDINATOR	COURSE CO-ORDINATOR
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