



## Online Training Program on "Sophisticated Environmental Analytical Facility"

March 23 - 25, 2021



### OBJECTIVES

To impart basic and advanced knowledge on instrumental methods for environmental analysis and train the participants to perform environmental analysis using sophisticated instrumentation and equipment which is needed in monitoring of environmental pollution and in investigating current environmental processes. Theoretical and analytical aspects for qualitative and quantitative analysis of environmental contaminants in environmental Samples. Imparting knowledge on methodologies for sample collection and preparation Hands-on training on sophisticated environmental analytical instruments and techniques Strengthening analytical capabilities on analysis of trace organic and inorganic contaminants in environmental Samples.

### COURSE CONTENTS

- Importance of environmental monitoring
- Sample preparation techniques for Environmental Pollutants
- Theory and principles of Gas Chromatography
- Theory and principles of Gas Chromatography-Mass Spectrometry (GC-MS)
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- Gas Chromatography- Mass Spectrometry (GC-MS)
- Theory and Principle of Atomic absorption spectrometry (AAS)-Flame, Graphite furnace, and hydride generation techniques
- Theory and Principle of ICP-OES
- Theory and Principle of ICP-MS
- Mercury analysis by Direct Mercury Analyzer (DMA)
- Trace metal analysis by AAS
- Multi-elemental analysis by ICP-OES
- Trace metal analysis by ICP-MS
- Theory and Principles of high performance liquid chromatography (HPLC)
- Theory and Principles of Ion Chromatography (IC)
- Theory and Principles of Total Organic Carbon (TOC) Analyser
- Hands-on training on HPLC
- Hands-on training on IC
- Hands-on training on Total Organic Carbon (TOC) Analyser

### MODE OF TRAINING

MS Team platform will be used to conduct online training program comprising various tools (audio/visual methods, live lectures, reading materials, Q&A session and interactions with resource persons etc.).

**REGISTRATION FEE:** The fee for Online Training is ₹3,000+18%GST

### CERTIFICATE OF PARTICIPATION:

CSIR-NEERI issues a Certificate of Participation on successful completion of the training program.

**LAST DATE OF REGISTRATION:** March 16, 2021

#### DIRECTOR

**Dr. Rakesh Kumar**  
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CSIR -NEERI  
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#### PROGRAM CO-ORDINATOR

**Dr. Harshvardhan Singh**  
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#### COURSE CO-ORDINATOR

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### Registration Form :

Name of the Participant	:	
Designation	:	
Organization	:	
Address	:	
Contact Details	Mobile :	
	Email:	
Registration Fee payment details	:	

### Mode of registration fees:

Online Fee for Training Program fee will be paid online through SBI Collect, through the link:

<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 the filled registration form and fee payment details on email [skill.neeri@neeri.res.in](mailto:skill.neeri@neeri.res.in) for confirmation of participation..**