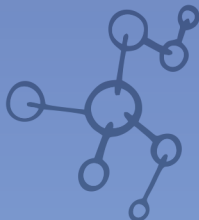




# Guided Hands-on Training on Instrumental Chemical Analysis

Venue:  
Department of Chemical Oceanography  
May 23 - 27, 2022



Organised by  
**Department of Chemical Oceanography**  
&  
**Inter University Centre for Development of Marine Biotechnology (IUCDMB)**

**School of Marine Sciences**  
**Lakeside Campus,**  
**Cochin University of Science and Technology (CUSAT)**  
**Kochi 682016**



Link for application  
<https://forms.gle/tzeNYgXgVwMU8Xp47>

## Overview:

This programme is envisaged to provide the young researchers with a theoretical understanding of how modern analytical instruments work and the skills to operate them through theory classes and guided laboratory sessions. The programme aims to improve the analytical skills of professionals, researchers and young scientists across various establishments like start-ups, seafood, food, petrochemical, natural product and pharma industries.

## Course Content

The lectures and guided hands-on training will cover the background theory, method development/optimisation and troubleshooting with the following analytical instruments.

1. Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES)
2. Atomic Absorption Spectroscopy (AAS)
3. Liquid Chromatography–Mass Spectrometry (LC-MS)
4. Ion Chromatography (IC)
5. Gas Chromatograph Mass Spectrometry (GC- MS)
6. Fourier-Transform Infrared Spectroscopy (FTIR)
7. UV-Visible Spectrophotometer

## Who can apply?

Researchers, teachers, technicians and early career scientists

## Link for application

<https://forms.gle/tzeNYgXgVwMU8Xp47>

**Course Dates:** May 23- 27, 2022

**Course Fee:** Rs. 3500/- (Non-refundable)

**Payment mode:** Online

The shortlisted candidates will be intimated on or before 13.05.2022.

They must complete the payment formalities on or before 16.05.2022.

### Deadlines:

Last date for the online application: May 12, 2022

Intimation of selection: May 13, 2022

Last date for fee payment: May 16, 2022



### Keynote Speaker

**Dr. G.V.M. Gupta**

Scientist G, Director, CMLRE,  
Ministry of Earth Sciences

### Invited speakers/Faculty



**Dr. V. V. S. S. Sarma**

Chief Scientist - CSIR-NIO,  
Visakhapatnam (RCW)



**Dr. Muhamed Ashraf P.**

Principal Scientist,  
ICAR-CIFT, Kochi



**Dr. Anoop A. Krishnan**

Assistant Director (Technical)  
Export Inspection Council,  
Ministry of Commerce & Industry



**Dr. M. George,**

Visiting Scientist,  
Washington University  
in St. Louis, USA

- **Dr. Gireeshkumar T. R.**, Senior Scientist, CSIR-NIO, Kochi
- **Dr. Renjith K. R.**, Scientist, KSCSTE-CWRDM, Calicut
- **Dr. Shaiju P.**, Assistant Professor, C-SIS, CUSAT
- **Dr. Ratheeshkumar C.S.**, Assistant Professor, Dept. of Environmental Sciences, CUSAT
- **Dr. Habeeb Rahman K.**, Assistant Professor, Dept. of Chemical Oceanography, CUSAT
- **Dr. Jorphin Joseph**, Assistant Professor, Dept. of Chemical Oceanography, CUSAT

### About the Department of Chemical Oceanography

The Department of Chemical Oceanography has credentials of rich expertise in hydrochemical analysis for well over three decades. It has well qualified and experienced scientific personnel and analytical facilities that include several sophisticated instruments such as UV - VIS Spectrometers, ICP-OES, AAS, GC, HPLC, GCMS, LCMS, FTIR, Electrophoresis, High-Speed Centrifuge, Rotary Evaporator, etc.

### About Inter University Centre for Development of Marine Biotechnology

Established in December 2009, the centre aims to identify and estimate marine natural products along with their applications in the biotechnology sector. It functions as an interuniversity facility to foster the requirements of research programs and teaching in marine organic chemistry. It is one of the interuniversity centre supported by the Govt. of Kerala.

## **Organising Committee**

### **Patran:**

Prof. (Dr.) K.N Madhusoodanan, Hon'ble Vice-Chancellor, CUSAT

### **Co-patrons:**

Prof (Dr.) P. G. Sankaran, Pro-Vice-Chancellor, CUSAT

Prof (Dr.) S. Bijoy Nandan, Dean, Faculty of Marine Sciences, CUSAT

### **Chairman:**

Dr. N. Chandramohanakumar, Director, IUCDMB, CUSAT

### **Co-ordinator:**

Dr. Shaju S. S., Head, Dept. of Chemical Oceanography, CUSAT

### **Joint co-ordinators:**

Dr. Habeeb Rahman K., Asst. Professor, Dept. of Chemical Oceanography & Asst. Co-ordinator, IUCDMB, CUSAT

Dr. Jorphin Joseph, Asst. Professor, Dept. of Chemical Oceanography, CUSAT

### **Instrumentation Training co-ordinators:**

Dr. Gireeshkumar T R., Senior Scientist, CSIR-NIO RC, Kochi

Mr. Shameem K., Technical Assistant, CUSAT

## **Contact Details:**

Head,

Department of Chemical Oceanography

School of Marine Sciences

Cochin University of Science and Technology (CUSAT)

Kochi 682016

Phone: 0484-2382131 (office)

Mobile: 9895909457 ( Dr. Shaju SS), 8281256045 (Dr. Habeeb Rahman

K), 9495283270 (Dr. Jorphin Joseph)

Email: [chemoc@cusat.ac.in](mailto:chemoc@cusat.ac.in)

Website: [www.cod.cusat.ac.in](http://www.cod.cusat.ac.in)