Central Pollution Control Board (CPCB), New Delhi sponsored

Three-day Training

On

Soil Pollutants Impact Assessment and Remediation of Contamination Sites

[March 07-09, 2022]

Being organized at and by
DEPARTMENT OF HYDROLOGY

In association with
CONTINUING EDUCATION CENTRE, IIT ROORKEE

INDIAN INSTITUTE OF TECHNOLOGY ROORKEE
Roorkee – 247667, INDIA

Nomination form/Application for CPCB sponsored three days training on

Soil Pollutants Impact Assessment and Remediation of Contamination Sites

[March 07-09, 2022]

Being organized at and by
DEPARTMENT OF HYDROLOGY

After completion, please mail to:
Dr Brijesh Kumar Yadav
Professor and Head
Department of Hydrology, IIT Roorkee
Roorkee – 247 667 (Uttarakhand)
Phone: (01332)284755, 8979534484
Email ID: brijeshy@gmail.com, brijkfhy@iitr.ac.in, brijesh.yadav@hy.iitr.ac.in

Affix passport size photograph

Name:
Designation:
Name of the Institute where employed:
Name of State level pollution control board:
Addresses:
Mobile No. Email ID:
Qualification:
Field of Study/work:

Date: **Signature of applicant**
Note:

SPONSORSHIP CERTIFICATE

(a) The applicant will be permitted to participate in the above training, if selected. Further, I have personally talked to the applicant and he/she seemed to be sure to attend it, in case the admission is offered to him/her.
(b) Certified that this institute is recognized by CPCB/State level pollution control boards.

Date: **Signature of** Sponsoring Authority
(Principal/Director/Head)

Seal of the Institution

Identification and subsequent cleaning of polluted resources have rapidly evolved in the last couple of decades, and the focus has now shifted in favour of using green and sustainable approaches. The emphasis of this course is on practical applications of emerging technologies used in the identification and characterization of polluted sites and their subsequent remediation practices. Geophysical and other investigation techniques will be introduced to identify and manage the data associated with problematic sites effectively. Strategies and technologies to address contaminant treatment, including the no-action alternative, natural attenuation, pump-and-treat, green and sustainable methods, containment techniques, and in-situ destruction technologies, will be reviewed in sufficient technical detail so the participants can apply the basic engineering design equations in the field. A review of regulatory requirements will also be included; economic constraints that play important roles in the selection of appropriate remediation strategies and treatment technologies will also be discussed.

Objectives:

1. To understand the fundamental techniques for identifying polluted sites and their associated physiochemical and biological environmental conditions.

2. To understand different remediation technologies and practices along with their engineering, economic, and regulatory limitations in order to determine a treatment strategy and selection of technologies to implement the strategy for a given data set.

About IIT Roorkee:

IIT Roorkee became the seventh IIT of the country when 21st September 2001, the prestigious University of Roorkee was converted into an IIT. Founded as Thomason College of Civil Engineering in 1847, this temple of learning, the oldest engineering institution in Asia and the first one in the then British Empire, is now around 170 years old. The Institute offers 12 undergraduate courses in Engineering and Architecture and 48 postgraduate courses in different disciplines of Engineering, Architecture, Management and Sciences along with 5 Integrated Dual Degree, 3 Integrated M. Tech. & 3 Integrated M.Sc. programs. PhD programs are conducted in all disciplines.

IIT Roorkee possesses a unique environment congenial for research and development activities and the faculty has expertise in almost all the major fields of engineering and sciences. The Institute has 18 academic departments, one academic centre and 3 centres of excellence. Modern centralized facilities exist at the Institute, including a Computer Center, Information Super-Highway Center and Instrumentation Center. The Institute's Central Library and the libraries of several national institutes located at Roorkee provide priceless technical literature, seldom available at any other engineering center in the country.

About Roorkee:

Roorkee is a part of the State of Uttarakhand and is located at the foothills of the Himalayas. Roorkee Railway Station is on the mainline of Northern Railways having direct links to Delhi, Amritsar, Jodhpur Shri Ganga Nagar etc. The place is also within easy reach by road from Delhi (200 km) and Chandigarh (180 km) connected by National Highways. It is located on Delhi-Haridwar and Delhi-Dehradun bus routes. Roorkee is ideally located near several tourist places, like Dehradun (70 km), Mussoorie (100 km), Haridwar (32 km) and Rishikesh (50 km).

The coordinator:

Dr Brijesh Kumar Yadav is currently the Professor and Head of the Department of Hydrology, IIT Roorkee. He is an awardee of the prestigious Ramanujan fellow by Government of India and had received postdoctoral fellowships from University of California Davis, Utrecht University & UNESCO-IHE Delft Netherlands.

His current research focuses on Subsurface flow and contaminant transport, Plant-soil-atmosphere interactions, Phytoremediation of contaminated soil-water, Saltwater intrusion and managed aquifer recharge (MAR), Bioremediation of non-aqueous phase liquid (NAPL) pollutants, Multiphase flow, CO2 sequestration in the deep subsurface, Nitrate transport in the vadose zone, Vulnerability assessment of groundwater and its quantification. Dr Yadav has published around 50 peer-reviewed journal articles and 7 book chapters and made more than 40 presentations at various national and international conferences/symposiums in areas of natural resources. He has successfully organized 15 training courses/workshops sponsored by WMO, MHRD, CPCB, and DST.

The co-coordinator:

Dr Himanshu Joshi is currently working as a Professor in Department of Hydrology, Indian Institute of Technology Roorkee. He has obtained PhD from IIT Roorkee in 1995 in Civil Engineering with a specialization in Environmental Engineering.

His area of expertise includes Environmental assessment, Water, Soil and Air monitoring, Water quality modelling, Impact assessment, Environmental management, Water and wastewater treatment, Membrane technology, Nanotechnology, Phytoremediation, Environmental Planning, Sustainability evaluation, Water Footprint assessment.

Modules	**Duration:** March 07-09, 2022 **Venue:** Department of Hydrology, Indian Institute of Technology Roorkee
You Should Attend If	1. Nominated by CPCB/State level pollution control boards 2. You are a person from an industry/research organization 3. You are a scientist/faculty of an institution dealing with natural resources management. 4. You are a civil/agricultural Eng. /environmentalist/biotechnologist/geologist etc.
Note:	1. The course would be conducted online using the Webex platform and soft copy of the course material would be sent to all participants. The course certificate would be posted to all.
Participation Fees*	1. Academic/Research organizations: ₹ 4,000 INR 2. Industrial participation: ₹ 8,000 INR
Seats	**Total No of Seats= 25** **[**20 Nominated by CPCB/State level pollution control boards + *05 Self/Industrial sponsored]
Last Date	**March 02, 2022 (FINAL)**