

Central Pollution Control Board (CPCB), New Delhi sponsored

Three-day Training

On

Carbon Sequestration Estimation and Nitrogen Footprint Assessment

[January 28-30, 2019]

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
Carbon Sequestration Estimation and Nitrogen Footprint Assessment
[January 28-30, 2019]

Being organized at and by
DEPARTMENT OF HYDROLOGY

After Completion, please mail to:

Dr. Brijesh Kumar Yadav
Associate Professor
Department of Hydrology, IIT Roorkee
Roorkee – 247 667 (Uttarakhand)
Phone: (01332)284755, 286516
Email ID: brijeshy@gmail.com

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:

Note:

Signature of applicant

SPONSORSHIP CERTIFICATE

- 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.
- 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

Rising worries about the climate changes has led to research findings for reducing the amount of CO₂ being produced by human beings to stop significant increases in global temperatures. Sequestration of CO₂ is an advanced and efficient technology to store increased concentrations of the gas from atmosphere in to the geosphere. The emphasis of this course is on understanding the various processes through which CO₂ can be captured and stored, and to recognize the various techniques for experimental study of the process.

Another goal of the course is to comprehend the idea, concept and various aspects of Nitrogen footprint. The techniques and methodologies (practical as well as numerical) involved to address the assessment, from developing remedial technologies will be reviewed in sufficient technical detail so the participants can apply their knowledge in real-time application studies. A review of regulatory requirements will also be included; economic constraints that play important roles in the selection of appropriate strategies and techniques will also be discussed.

Objectives:

1. To understand the fundamentals of Carbon-dioxide sequestration and the practical methods for its estimation in soil, forest and geological formations
2. To understand the concept and assessment techniques of Nitrogen footprint including reactive N-loss and sink as plant uptake through practical and numerical approach

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 11 undergraduate courses in Engineering and Architecture and 51 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. Ph.D. 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 center and 3 centers 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 Himalayas. Roorkee Railway Station is on the main line of Northern Railways having direct links to Delhi, Amritsar, Jodhpur and 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), Mussorie (100 km), Haridwar (32 km) and Rishikesh (50 km).

The Coordinator:



Dr. Brijesh Kumar Yadav is an Associate Professor at 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 multiphase flow modelling, soil water flow and solute transport analysis, Nonpoint source pollutant movement through deep and heterogeneous vadose zone, Phytoremediation of heavy metal polluted sites, Bioremediation of hydrocarbon polluted soil and groundwater resources, CO₂ sequestration in subsurface. Dr. Yadav has published around 30 peer reviewed international journals and made about 35 presentations at various international conferences/workshops.

The Co - coordinator:



Dr. Pallavi Chattopadhyay is currently an Assistant Professor in the Department of Earth Sciences, Indian Institute of Technology Roorkee. She has obtained PhD from Department of Geophysics, CSIR-National Geophysical Research Institute & Osmania University in 2010. She has published over 17 research papers in SCI journal and more than 20 conference papers. Her areas of expertise include application of near-surface Geophysics to explore subsurface geological controls, study of physical processes controlling fluid flow and mass transport in porous media, integration of geophysical imaging and numerical model, and establishing field-scale relations between geophysical and hydro-geological parameters

Modules	Duration: January 28-30, 2019 Venue: Department of Hydrology, Indian Institute of Technology Roorkee
You Should Attend if you are	<ol style="list-style-type: none">1. Nominated by CPCB/State level pollution control boards2. A person from industry/ research organization3. A scientist/faculty of an institution dealing with natural resources management.4. A civil/agricultural engineer / environmentalist/ biotechnologist/ geologist etc.
Note	No participation and accommodation charges for nominated person by CPCB and State pollution control boards.
Participation Fees*	<ol style="list-style-type: none">1. Students: 3000/- INR2. Academic/Research Employees: ₹ 5,000 INR3. Industrial participation: ₹ 10,000 INR
Seats	Total No of Seats= 25 [20 Nominated by CPCB/State level pollution control boards + *05 Self/Industrial sponsored]
Last Date	15/01/2019