



**BASIC SKILL DEVELOPMENT TRAINING ON  
“Spectroscopic Analytical Techniques - NMR”  
(8<sup>th</sup> – 10<sup>th</sup> December, 2025)**

# CSIR-INDIAN INSTITUTE OF PETROLEUM

## INTRODUCTION

CSIR-IIP has state-of-the-art R&D facilities, experienced and qualified staff and the institute maintains its leading position in conducting training programs for the personnel from refining, petrochemical, automotive, power and related user industry. More than 10,000 personnel from India and abroad have been trained.

As per the initiatives taken by the institute under ‘**CSIR-IIP Integrated Skill Development Training Programs**’ applications are invited from eligible participants for training program on ‘**Spectroscopic Analytical Techniques NMR**’.

Our Analytical Sciences Division is equipped with range of analytical instruments, numerous test measurement instruments and our scientists having vast knowledge base and working experience. The participants will acquire a broad working knowledge of spectroscopic analytical testing/evaluation techniques using NMR.

**CSIR INTEGRATED SKILL INITIATIVE**

## GET IN TOUCH



Sh Premchand Nerusu  
Co-ordinator, Skill Development Training Program  
CSIR-Indian Institute of Petroleum Mohkampur,  
Haridwar Road Dehradun - 248005

E-mail: [premchand.nerusu@csir.res.in](mailto:premchand.nerusu@csir.res.in)  
Sh Premchand Nerusu,  
Tel No 0135-2525952(O), M- 9481709862  
E-mail: [rajnish.bhatnagar@csir.res.in](mailto:rajnish.bhatnagar@csir.res.in)  
Sh Rajnish Bhatnagar,  
Tel No 0135-2525951(O), M-8218559825





## CSIR INTEGRATED SKILL INITIATIVES

### BASIC SKILL DEVELOPMENT TRAINING ON

### “SPECTROSCOPIC ANALYTICAL TECHNIQUES- NMR”

#### OBJECTIVES & SCOPE

Training is aimed at providing in depth knowledge and hands on experience on various spectroscopic analytical techniques to those new to the R&D institute/industry or wish to develop their career further in the relevant QA/ QC area with more strengthened analytical approach.

#### AFTER SUCCESSFUL COMPLETION

With exposure to advanced analytical instrumental facilities backed by theoretical clarity, a person will be able to develop precise evaluation approach for research and development activities/quality compliances besides running routine analytical tests depending upon individual's ability and dedication in learning the skill.

#### CONTENTS

- Basics of analytical chemistry
- Qualitative and quantitative analysis : Pre-requisites
- NMR basics
- Hands-on instrument training
- Theory, Instrumentation & analysis using NMR standard compound analysis with interpretation using Bruker Avance III 500 MHz NMR spectrometer

## CSIR INTEGRATED SKILL INITIATIVE

### IMPORTANT DATES

Last date for submission of Application	:	4th Dec , 2025
Course Duration	:	8th -10th Dec , 2025

*Seats are limited to a maximum of 15 participants. Register early!*

## PRE-REQUISITES / QUALIFICATION

Having graduation and post graduation in Chemical Sciences & Petroleum Engg.

Age : 20-40 years (Age/qualification relaxation as per Govt. of India Rules/discretion of Director, CSIR-IIP).

## WHO SHOULD JOIN

Resident Indian having desire to excel in the area of R&D/ Quality Control OR wants to acquire broad knowledge of Spectroscopic Analytical approach through exposure to instrumental testing and evaluation for competitive examinations.

## SALIENT FEATURES OF THE PROGRAM

- Theory : Practices :: 20 : 80
- Small group of Trainees in each program.
- Interactive sessions for in-depth knowledge sharing.
- Evaluation of trainees will consist of both Theory & Practical component.
- Certificates will be awarded on successful completion of the training

## COURSE FEES / TERMS AND CONDITIONS

- Candidates have to apply as per the application format in the given link below along with one set of self-attested documents (Hard copy of application).
- All documents in original to be shown at the time of enrolment.

[FORM download \(pdf\)](#)

## CSIR INTEGRATED SKILL INITIATIVE

**A non-refundable course fee of ₹750 (Rupees Seven Thousand five hundred only) per person is applicable for students/unemployed candidates, and ₹10,000 (Rupees Ten thousand only) for sponsored candidates.**

**The SC/ST/EWS candidate will get 25% discount in the above fee structure.**

**Course Fee shall be paid through electronic mode after confirmation only.**

**Boarding & Lodging charges extra as per the prevailing rates of IIP Hostel and subject to availability.**

<b>Name of Bank</b>	<b>: State Bank of India</b>
<b>Name of the account holder</b>	<b>: Director, Indian Institute of Petroleum, Dehradun.</b>
<b>Bank Account No</b>	<b>: 30266912400</b>
<b>Branch</b>	<b>: IIP Township, Mohkampur Dehradun, India</b>
<b>SWIFT Code</b>	<b>: SBININBB380</b>
<b>11 Digit IFS Code</b>	<b>: SBIN0002359</b>

**TRAINING VENUE :** CSIR-Indian Institute Of Petroleum P.O.: IIP Mohkampur, Haridwar Road, Dehradun-248 005, Uttarakhand (India).