



BASIC SKILL DEVELOPMENT TRAINING ON
“Analysis with Elemental, Microscopic and Thermo-gravimetric tools”
(16th-27th June 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.

CSIR-IIP conducts skill development programs under ‘CSIR Integrated Skill Initiatives (ISI) applications are invited from eligible participants for basic skill development training program on **“Analysis with Elemental, Microscopic and Thermo-gravimetric tools”**.

Our Analytical Sciences Division is equipped with range of analytical instruments and our Scientists having vast knowledge and Working Experience. The participants will acquire a broad working knowledge of various Elemental, Microscopic and Thermo-gravimetric analytical techniques (AAS, ICP-OES, SEM/ TEM, TGA/DSC & Powder XRD).

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@iip.res.in
Sh Premchand Nerusu ,
Tel No 0135-2525952, M- 9481709862
Sh Rajnish Bhatnagar,
Tel 0135-2525951(O), M-8218559825



BASIC SKILL DEVELOPMENT TRAINING ON “ANALYSIS WITH ELEMENTAL, MICROSCOPIC AND THERMO-GRAVIMETRIC TOOLS”

OBJECTIVES & SCOPE

Training is aimed at providing in depth knowledge and hands on experience on AAS, ICP-OES, SEM/ TEM, TGA/DSC & XRD 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
- Analytical approaches using Elemental, Microscopic and Thermo-gravimetric and XRD technique
- Theory, Instrumentation & analysis using
 - a) AAS (Atomic Absorption Spectroscopy), ICP-OES (Inductively Coupled Plasma Optical Emission Spectroscopy)
 - b) SEM (Scanning Electron Microscopy) / TEM (Transmission Electron Microscopy)
 - c) TGA (Thermo-Gravimetric Analysis /DSC (Differential Scanning Calorimetry)
 - d) Powder XRD (Powder X-ray Diffraction)
- Sample Preparation & Data Interpretation

IMPORTANT DATES

Last date for submission of Application	:	13th June 2025
Course Duration	:	16th to 27th June 2025

PRE-REQUISITES / QUALIFICATION

Having Post graduation in Chemical Sciences (M.Sc.) / M.Pharm

Age : 20-40 years

WHO SHOULD JOIN

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

SALIENT FEATURES OF THE PROGRAM

- Theory : Practical :: 20 : 80
- 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.
- Exposure to R&D labs

COURSE FEES / TERMS AND CONDITIONS

A non-refundable course fee of ₹ 4,000 (Rupees Four Thousand only) per person is applicable for students/unemployed candidates, and ₹ 20,000 (Rupees Twenty 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..

CSIR INTEGRATED SKILL INITIATIVE

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

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