



सत्यमेव जयते



TRAINING ON

Instrumental Analysis (GC & HPLC) of pesticide Formulations [16th - 20th June 2025]

Contact us

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Pesticide Management Division
National Institute of Plant Health Management [NIPHM]
Rajendranagar, Hyderabad, Telangana-500030

About the organization

NIPHM is a National-level institute under the administrative control of the Department of Agriculture & Farmers Welfare, Ministry of Agriculture & Farmers Welfare, GOI. Known for its uniquely designed capacity building programs for officials, analysts, and students of various state, central and private organizations.

Pesticide Formulation and Residue Analytical Centre (PFRAC), Pesticide Management Division (PMD) NIPHM is accredited as per the ISO/IEC:17025 for analysis of pesticide and pesticide residue. Proficiency Testing Center, is also accredited as per ISO/IEC: 17043.



Techniques and Topics to be covered

HPLC-UV-Vis., PDA & GC-FID, ECD

- ❖ Introduction and working principle of HPLC and GC
- ❖ Selection of column and mobile phase
- ❖ Calibration of HPLC and GC
- ❖ Method validation
- ❖ Analysis of agriculture and house hold pesticides as per Bureau of Indian standard (BIS).
- ❖ Interpretation of quantitative analysis
- ❖ Troubleshooting of HPLC and GC

About the Training Program



An outstanding platform for exposure to HPLC-UV-Vis., PDA and GC-FID, ECD chromatographic techniques, and upscaling components by HPLC will be offered using analysis of pesticides. A complete theoretical and practical knowledge of these techniques, troubleshooting and routine maintenance of related instruments and method validation can be extracted from this training.



The present training is expected to intensify the knowledge on the subject and allow a analyst to apply modern liquid chromatographic techniques in different applications and the role of each module in multi-component instrumentation. This course will enable participants to develop and validate HPLC and GC analytical methods. Additionally, the training will enable you to update with the Bureau of Indian standard (BIS) method.



Eligibility and Course Fee

Eligibility: Graduates from science

Duration: 5 days

Training Course Fee: (incl. GST)

Rs.3500/- for students

Rs.6250/- for working professionals

Boarding and Food Charges: per day (incl. GST) (double occupancy)

Rs. 1000/- (Silent spring), Rs. 500/- (Hostel-I),

Rs. 118/- (dormitory)

Food Charges: Rs. 300 /- approx. /day/person

Bank Details: NEFT/RTGS/UPI

Bank account Number: 40373518076,

IFSC: SBIN0020074

Branch: Rajendranagar, Hyderabad

(Branch code: 20074)

SCAN & PAY



BHIM
SBI Pay
BHIM UPI

EXPECTED OUTCOME

- ❖ Better understanding of the parameters provided in any documented analytical method.
- ❖ Analyst will be able to handle the instrument with confidence.
- ❖ Perform an analytical method and obtain results of chromatographic analysis.
- ❖ Interpret the acquired chromatograms from HPLC/GC analysis.
- ❖ Implement common measures to prevent malfunctioning of instruments.
- ❖ Do's and Don'ts of HPLC & GC
- ❖ Application of HPLC and GC method in pesticide QC/QA operations.
- ❖ Maintenance of Laboratory and chromatographic instruments as per ISO/IEC 17025:2017