

organizing

5-DAY

INDUSTRY ORIENTED ANALYTICAL INSTRUMENTATION TRAINING PROGRAM

A focused 5-day industry oriented training program designed to impart industry-relevant analytical techniques and practical knowledge. Empowering learners with skills and confidence to meet the evolving demands of the analytical science industry.



DATE

14th September
to

18th September
Time: 10am to 4pm



ABOUT TRAINING

- Industry-relevant analytical techniques
- Concepts with practical approach
- Method development & validation overview
- Data interpretation & result analysis
- Good Laboratory Practices (GLP)
- Certificate of Completion



5-DAYS FEES

₹2000/-

REGISTER NOW



HIGHLIGHTS



**Expert
Faculty**



**Practical &
Hands-on Training**



**Industry Relevant
Curriculum**



**Career
Growth Support**



**Certificate of
Completion**

ORGANIZED BY

LiberAnnex Analytical Research & Training Centre is an ISO 9001:2015 certified organization dedicated to bridging the gap between academic learning and industrial requirements through hands-on analytical training, research support, and professional analytical services. Established in 2019, LiberAnnex specializes in advanced analytical techniques including HPLC, GC, UV-Visible Spectrophotometry, FTIR, and method development & validation, while also providing sample testing, internships, dissertation support, and industry-oriented skill development programs. With a strong focus on practical learning, regulatory compliance, and career readiness, LiberAnnex empowers students, researchers, and professionals with the technical expertise and confidence required to excel in pharmaceutical, biotechnology, food, environmental, and chemical industries.

ASSOCIATED WITH



BV Patel Education Foundation (formerly known as Shri Bhupendra V. Patel Education Foundation and earlier known as Shri B.V. Patel Education Trust), is named after the First Drug Controller of Gujarat State Shri Bhupendrabhai V. Patel. Vision and Mission of the Foundation are to organize and conduct educational programs in the field of pharmacy and allied sciences and to support pharma industry and academia with skilled manpower, scientists, technocrats and management professionals. To achieve this aim, the Foundation organizes Hands on Training Workshops, Faculty Development Programmes, Technician Development Programs with various Universities, Colleges, Private Laboratories, Companies and institutions across India. The Foundation also conducts Certificate Courses for pharma and allied science graduates to prepare them for industry oriented skilled human resources. The Foundation is also working to come up with innovative programmes to support students and promote educational activities across India in healthcare.



Contact
8980045400



Website
www.liberannex.com



**02, 3rd floor, Aura Square
Complex, Panchvati Circle, Gorwa,
Vadodara, Gujarat**

5-DAY

INDUSTRY ORIENTED ANALYTICAL INSTRUMENTATION — TRAINING PROGRAM —

1 SESSION 1: BASIC LABORATORY SKILLS (DAY 1)

THEORY

- Pharmaceutical Industry Overview
- Lab Entry & Gowning
- GLP & GDP
- SOPs, GMP & ICH Guidelines
- Laboratory Safety
- Solution Preparation
- %, ppm, Molarity & Normality

PRACTICAL

- Pipette Handling & Calibration
- Analytical Balance Operation
- pH Meter Calibration



2 SESSION 2: HIGH PERFORMANCE LIQUID CHROMATOGRAPHY (HPLC)

DAY 2 – THEORY

- Chromatography Basics
- HPLC Principle
- HPLC Instrumentation
- HPLC Components
- Data Analysis

DAY 2 – PRACTICAL

- HPLC Demonstration
- System Suitability Test (SST)
- RSD Calculation

DAY 3 – PRACTICAL

- Paracetamol Identification
- Paracetamol Assay (USP)
- Calibration Curve
- Caffeine Assay



3 SESSION 3: GAS CHROMATOGRAPHY (GC)

DAY 4 – THEORY

- GC Principle
- GC Instrumentation
- Industrial Applications

DAY 4 – PRACTICAL

- GC Demonstration
- Sample Injection
- RSD Practice
- Methanol Analysis
- Residual Solvent Analysis

DAY 5 – PRACTICAL

- Internal Standard Method
- Response Factor Calculation



ASSESSMENT

- ✓ Practical Examination
- ✓ Theory Examination (50 Marks)



HPLC SYSTEM



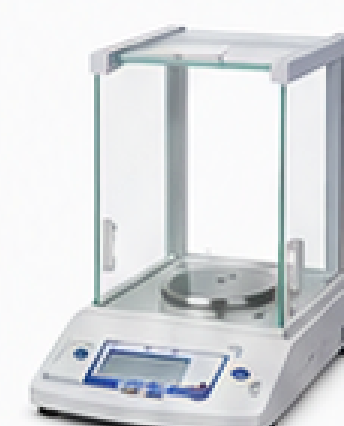
UV-VIS
SPECTROPHOTOMETER



GC SYSTEM



PH METER



ANALYTICAL BALANCE



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