

# PG TECH RESEARCH INSTITUTE

## TRAINING PROGRAM



"I am happy with experience"  
 by Anuradha Engineer, Director  
 PGRI Will Prove it for You.

### Wet Lab - Code No.- PG - 01 (4 weeks)

**Laboratory Overview :**

**Laboratory Practices :**

**Introduction of Lab Instruments/  
 Equipments :**

Laboratory Glassware | Lab Chemical Handling | Lab Control Systems

Weighing | Pipetting | Dilution | Environmental Requirement | Glassware Handling  
 Analysis & Reporting | Calculation | Good Documentation Practices  
 Water Analysis/Solubility

Balance | Karl Fisher (KF) | Disintegration (DT) | Friability Test Apparatus  
 Dissolution | Melting Point Apparatus | Water Bath | Laboratory Oven  
 Fuming Hood | pH Meter | Conductivity Meter | Water Purification System  
 UV-Vis Spectrophotometer | IR Spectrophotometer

### HPLC Training- Code No.-PG-02 (4 Weeks)

**Introduction of Lab Instrument :**

**Mobile Phase Preparation :**

**Column :**

**HPLC Basic/Theory :**

**System Suitability :**

Balance | pH Meter | HPLC

Volume Measurement | Mobile Phase Preparation | Filtration Techniques

Column Handling | Column Performance Test | Column Storage | Type Of Column  
 Guard Column | Column Washing Procedure

Theory | Type of Detector | Software Function | Normal Phase/Reverse Phase  
 HPLC Analysis | Calibration | Trouble Shooting | Data Integrity | Data Storage  
 Calculation | Result Reporting | ALCOOA + Principale

Resolution Tailing % RSD | Peak-to-Valley Ratio | Capacity Factor | Relative Retention  
 Theoretical Plate/Column efficiency

### Quality Assurance code No. PG - 03 ( 4-weeks)

**Understanding of QA :**

**Quality Management System (QMS) :**

**Qualification :**

**Validation Approach :**

**Guideline :**

QA Work & Responsibility | Assurance and Control Over Lab Operations

Change Control | Deviation | Lab Errors | Lab Incident | Out of Specification (OOS)  
 Out of Calibration (OOC) | Out of Trend (OOT) | Market Complaint  
 Trending of Analysis data

Qualification of Area, Product, Instruments/Equipment, etc | Vendor Qualification

Process Validation | Equipment Validation | Facility Validation | Cleaning Validation  
 Analytical test Method Validation | Computer System Validation | ALCOOA & ALCOOA +

ICH Guideline (Overview) | APQR | Site Master File | Risk Assessment | Introduction of  
 other Regulatory Guideline

### Internship Program Code No. PG-04 (10 Days)

Laboratory Overview | Laboratory Practice | Introduction of Lab Instruments/Equipments  
 Mobile Phase Preparation | Column | HPLC Basic/Theory | System Suitability  
 Understanding of QA | Quality Management System (QMS) | Theory & Practice | Balance  
 pH Meter | UV-Vis Spectrophotometer | Melting Point | Disintegration Test for Tablet  
 Friability Test for Tablet | Determination PPM, Normality, Molarity  
 LOD & Water content by Karl Fisher Apparatus.

**Final Test Paper | Certification**