



BRIEF REPORT

DATE: 25-Nov-2024

A 6 –Day Workshop was conducted between 18 to 23 november 2024 as ADD-On program on Advanced Pharmaceutical Analytical Techniques with HPLC MAKE: WATERS and UV-VISIBLE Spectrophotometer MAKE: SYSTRONICS for B.PHARM Third year & Final year students and Pharm.D Third year students. A total of 117 students registered for the program. Resource Person Mr.K.Rambabu Managing director of SRL Laboratories have given exclusive training in handling instruments individually and experiments done on it assessing their learning.

D. Subram

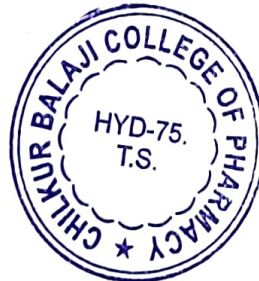
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CBCP NEWSLETTER



WORKSHOP HIGHLIGHTS: HPLC INSTRUMENTATION THEORY

Day 1 of the workshop laid the groundwork for understanding High-Performance Liquid Chromatography (HPLC), a cornerstone of modern pharmaceutical analysis. Led by Mr. K Rambabu, Managing Director of SRK Laboratories, the session combined theoretical knowledge with practical insights to ensure participants gained a comprehensive understanding of key concepts.

● TOPICS COVERED

1 Introduction to Pharmaceutical Industries:

- Overview of the pharmaceutical industry's role in healthcare.
- Key processes in drug development and quality assurance.

2 Types of Formulations:

- Discussion on solid, liquid, and semi-solid formulations.
- Importance of formulation types in therapy and analysis.

Stay Updated:

Follow us on <https://linktr.ee/CBCPIS> for more workshop highlights and insights!

#UVHPLCWorkshop #CBCP
 #ChilkurBalajiCollegeOfPharmacy
 #SkillDevelopment
 #PharmaceuticalSciences
 #HandsOnLearning

CHILKUR BALAJI COLLEGE OF PHARMACY
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6 Days workshop on handling of UV-HPLC Instrumentation

Instructor: Mr. K. Rambabu
 Managing Director
 SRK Laboratories

Venue: CBCP Seminar Hall, 18th to 23rd Nov 2024
 from 10 am to 3.30 pm

CO-ORDINATOR: Mrs. Sushma Desai, Asst. Professor
 CONVENOR: Dr. Chandrasekhara Rao Baru, Prof. & Principal



NOVEMBER 18, 2024

www.chilkurbalajipharmacy.com

3 Introduction to HPLC:

- Fundamentals and significance of HPLC in pharmaceutical analysis.
- Role of HPLC in ensuring drug quality and compliance.

4 Types of Techniques in HPLC:

- Insights into reverse-phase, normal-phase, ion-exchange, and size-exclusion chromatography.
- Guidelines for selecting the appropriate technique.

5 Flowchart for HPLC Process:

- Step-by-step breakdown of the HPLC workflow:
- Sample preparation
- Injection
- Column separation
- Detection and data analysis

6 Methodology:

- Key methodologies for sample preparation, system setup, and detection.
- Optimizing parameters for accurate analysis.

7 Evaluation:

- Interpretation of chromatograms and peak analysis.
- Factors affecting the accuracy of results.

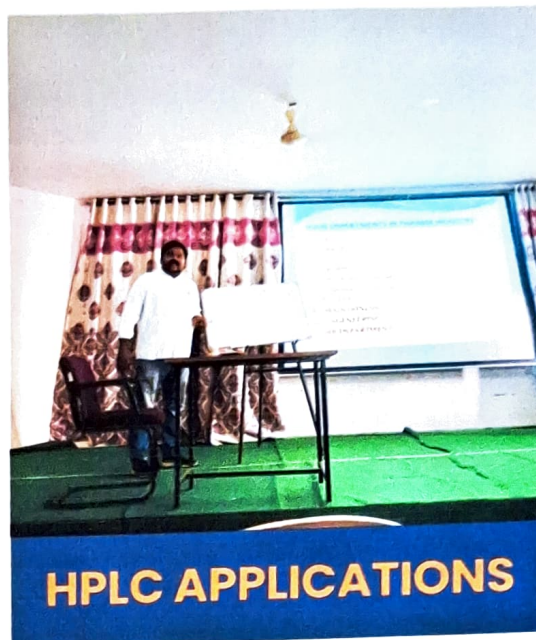
8 Testing:

- Practical examples of testing pharmaceutical samples using HPLC.
- Challenges and solutions in testing processes.

9 Preparation of Buffer Solutions:

- Importance of buffer solutions in maintaining pH stability.

Techniques for preparing and optimizing buffer solutions for HPLC.



10 Selection of Separation Techniques:

- Criteria for choosing separation techniques based on sample characteristics.
- Balancing resolution, speed, and efficiency.

11 Problem Identification in Instrument and Column:

- Common issues in HPLC instrumentation and columns.
- Troubleshooting strategies for optimal performance.