



ADITYA COLLEGE OF PHARMACY

Aditya nagar, Surampalem,
Andhra Pradesh 533437



A Certificate course on "Method development and validation by HPLC"

Eligibility: III B.Pharm

Students who are interested to join the certificate course should contact the respective coordinator



Coordinator: P. Satya Mounika
Asst. Professor,
Aditya College of Pharmacy



Resource Person: N.Divya
Asst. Professor,
Aditya College of Pharmacy



Convener: Dr.K.Ravishankar
Principal,
Aditya College of Pharmacy



Patron: Dr.N. Satish Reddy
Vice-Chairman,
Aditya Educational Institutions

Timings:
21st January 2021
to
18th February 2021
(Every Thursday)



[Signature]
PRINCIPAL
Aditya College of Pharmacy
SURAMPALAM-533 437

All the students enrolled in this course will be provided with a certificate



ADITYA COLLEGE OF PHARMACY

(Affiliated to JNTUK, Approved by AICTE)



(ADITYA NAGAR, ADB ROAD, SURAMPALEM 533 437, E.G.Dt, Ph.9949876664, 08852-200005)

Website: www.acop.edu.in, Email: office@acop.edu.in

COURSE SYLLABUS

DURATION: 30Hrs

COURSE NAME: METHOD DEVELOPMENT AND VALIDATION BY HPLC

Course Objective:

- To identify the steps involved in method development.
- To study the ICH guidelines for method validation
- To enhance skill in method development and validation.

Course Outcome:

- To understand the importance of method development and validation by HPLC in drug development.
- To understand procedures for method development and validation.
- To overcome the troubles during the process.

DAY 1: 21-01-2021 (6Hrs)

MODULE I:

HPLC – introduction, principle, instrumentation, applications. Chromatographic parameters.

DAY 2: 28-01-2021 (6Hrs)

MODULE II:

Analytical Method Development- Purpose, Steps for development of method, Characterization of analyte standard, method requirements, literature review on prior methodology, choosing a method, Instrumental Set up. Optimization, Documentation, Evaluation of developed method, demonstration of quantities in real samples.



Devi Challa
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DAY 3: 04-02-2021 (6Hrs)

MODULE III:

Steps involved in Method Development- understanding physicochemical properties of drug molecules, Setting up HPLC conditions, Preparation of sample solutions for method development, method optimization, method validation.

DAY 4: 11-02-2021 (6Hrs)

MODULE IV:

Method validation-components – System Suitability, Accuracy, Precision, Linearity, Detection Limit, Quantification Limit, Specificity, Robustness, Solution Stability studies, Forced Degradation Studies.

DAY 5: 18-02-2021 (6Hrs)

MODULE V:

Practical Session- handling of HPLC, sample injection, software handling, input of chromatographic conditions, evaluation of chromatograms.

REFERNCES:

1. Practical Pharmaceutical Chemistry, 4th edition, Part 2, by Beckett and Stenlake, CBS publishers and Distributors, P.No: 157-174.
2. Instrumental method of Chemical Analysis by Chatwal Anand, Himalaya Publishing House, p.no:615-623.
3. Govt. of India, Ministry of Health and family Welfare. Vol. 2. Delhi: Publication bhy controller of publication; 2007. Indain Pharmacopoeia; pp: 484-554.



Jeevi Chandra
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4. Skoog, West, Holler, Crouch. Fundamentals of Analytical Chemistry, 8th edition, 2012 (Indian Edition), Cengage learning India Pvt Ltd, New Delhi, Pg.No:271-280.
5. ICh Topic Q2 (R1) Validation of Analytical Procedures: Text and Methodology.
6. Azim Md. Sabir, MitraMoloy, BhasinParminder S. HPLC Method Development and Validation: A review. International research Journal Of Pharmacy,2013, 4(4): 39-46.
7. G.Santhosh, G.Nagasowjanya, A.Ajitha, Y.UmaMaheswara Rao. HPLC Method Development and Validation: An Overview.2014,4(4):274-280.



Swami Chelca

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ADITYA

COLLEGE OF PHARMACY

Approved by AICTE & PCI - NEW DELHI, Affiliated to JNTUK KAKINADA
(Formerly known as Sri Sai Aditya Institute of Pharmaceutical Sciences & Research)

Ph: 99498 76664

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Website: www.acop.edu.in

CERTIFICATE COURSE SUMMARY 2020-21

COURSE CODE AND NAME : CMDV and Method development and validation by HPLC
COURSE DURATION : 30Hrs
BRANCH AND YEAR OFFERED: III B.Pharmacy
COURSE INSTRUCTORS : N.Divya, Assistant professor

COURSE OUTCOME

The student would be able to understand the importance of method development and validation by HPLC in drug development, procedures for method development and validation, and overcome the troubles during the process.

COURSE TYPE : Self framed course

ASSESSMENT MODE

ATTENDANCE : 30 Hours
NO.OF PARTICIPANTS : 105
SCHEME OF EXAM : MCQ Offline
DATE OF EXAM : 22-02-2021

P.S. Mounika
Course coordinator

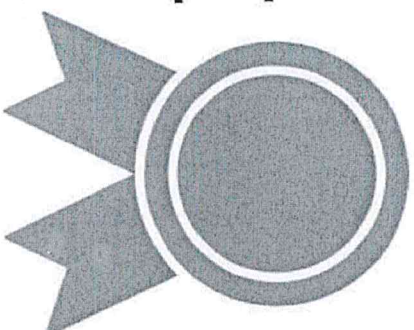


Scani Chaudhary
Principal
PRINCIPAL
Aditya College of Pharmacy
SURAMPALEM-533 437





CERTIFICATE OF COMPLETION



This is to certify that Mr./Ms

bearing roll number _____ has successfully
completed the Value-added course entitled
“Method Development and Validation of HPLC.”
held in Aditya College of Pharmacy, Surampalem
from 21st January to 18th February 2021

Surampalem

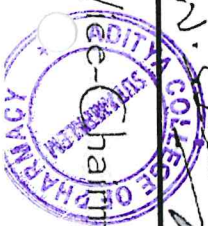
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SURAMPALAM

N. Sate Reddy

Chairman

Vice-Chairman



**Director &
Principal**

Sample