

Date: 01-04-2021

NOTICE

All the registered students for certificate course entitled "Sophisticated Analytical Techniques and Data Processing" are hereby informed to attend Theory classes as per following schedule.

Course Code: RSCP/21/PHARMCHEM 01


Tentative Schedule for Certificate Course 2020-21 "Sophisticated Analytical Techniques and Data Processing"

Date	THEORY			Total Hrs
	Time			
	10:30am to 11:30am	11:30am to 12:30pm	12:30pm to 1:30pm	30
03-04-2021	Introduction to sophisticated analytical techniques (Dr VSB)			03
04-04-2021	HPLC (Basics and Interpretation of Graph) (Dr VSB)			03
05-04-2021	UV (Basics and Interpretation of Graph) (Prof SPS)			03
06-04-2021	FTIR (Basics and Interpretation of Spectra) (Prof SPS)			03
06-04-2021 Second half	NMR (Basics and Interpretation of Spectra) (Prof SPS)			03
08-04-2021	MASS (Basics of Interpretation of Spectra) (Dr.VSB)			03
09-04-2021 and 10/04/2021	Experimental methods of sophisticated analytical instruments (Prof RGD & Prof SPS)			06
11-04-2021 & 12/04/2021	Data processing (Prof RGD)			06



Dr. V. S. Borkar
HOD; Pharm. Chem.




Principal
Rajarshi Shahu College of Pharmacy,
Malvihiir, Buldana.
(Dr. S. P. Jain)

1. **Title of the Course:** Sophisticated Analytical Techniques and Data Processing
2. **Course Code:** RSCP/21/PHARMCHEM 01
3. **Course Mentors:** Dr. Vijay S. Borkar, Mr Satish P. Shelke, Mr. Rushikesh G. Diware.
4. **Target Group:** Post- Graduation
5. **Fee Structure:** No Entry Fees
6. **Duration of the course:** 03-04-2021 to 12-04-2021.
7. **Days and time of the course :** Daily 10:30 AM to 1: 30 PM
8. **Eligibility of the Course:** Open for Final B Pharm. and M Pharm.
9. **Objectives:** After completion of the course, the participants will be able to
 - a. Know and understand the basic principles and working of the analytical instruments.
 - b. Interpret the analytical data from IR, UV, NMR and Mass spectra.
 - c. Understands operating sophisticated instruments.
 - d. Handling of data using Excel, and other software
10. **Scope:** In pharmaceutical analysis it is important to understand sophisticated analytical instrument working and interpretation of the obtained data by the students, scientist and faculty members. This training course will address these aspects and will help to enhance the understanding about sophisticated instruments, Interpretation of analytical data, Technical skill in reading data handling of spectroscopic data recent developments in the analytical field.
11. **Uniqueness:** The course will impart hands on training on various advanced sophisticated analytical instruments like IR, HPLC and UV etc. The training will be given by the subject experts.

12. Learning Outcomes of the Course: After completing this course students will be able to know the

- a. Basic principle and working of the instruments such as UV, IR, NMR, HPLC, Mass Spectroscopy
- b. Interpret the analytical data from spectra.
- c. Qualitative and quantitative analysis of drugs substances and Drug products using these techniques.

13. Syllabus:

a. Chromatography:


1. HPLC Theory, Principle and data processing.
2. Demonstration on HPLC Handling and calibration, Open lab 7.2 software.
3. Mobile Phase Preparation and column selection.
4. Basics of HPLC method development.
5. Basics of Impurity profiling on HPLC.

b. Spectroscopy: Theory Principle and data processing for

1. FTIR: Interpretation of IR spectra
2. USP and Ph. Eur. General Chapters for FTIR including 197K, 197M, 197N
3. Sampling in FTIR and demonstration on ATR techniques.
4. Theory, Principle and data processing of UV Spectroscopy
5. Multi-component analysis by UV including Vierordt's method



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RAJARSHI SHAHU COLLEGE OF PHARMACY BULDHANA

Organized
Certificate Course on

SOPHISTICATED ANALYTICAL TECHNIQUES AND DATA PROCESSING

Date : 03 APR 2021 to 12 APR 2021

Eligibility: M Pharm and B Pharm Final year Students

Key Skills

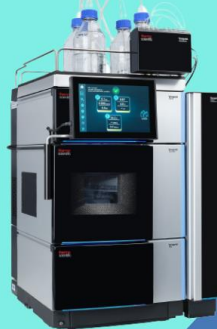
- Handling and Interpretation of IR Spectra
- HPLC Handling and Data Interpretation
- Basics and Interpretation of NMR, Mass Spectra
- Data Processing using Various Software

REGISTER NOW

Last Date for Registration

02 APR 2021

Co-ordinated by
Department of Pharmaceutical
Chemistry
RSCP Budhana



Convener
Dr Shirish Jain
Principal
RSCP Buldana

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