

ABOUT THE BOOK

'Pharmaceutical Organic Chemistry - I Lab Manual' is a structured and curriculum-aligned laboratory course crafted for B.Pharm first-year students. Developed in accordance with the guidelines of the Pharmacy Council of India (PCI), this manual introduces students to the fundamental experimental aspects of organic chemistry within the context of pharmaceutical education.

The manual begins with an overview of laboratory safety, handling of apparatus, and basic techniques such as melting point determination, boiling point estimation, crystallization, distillation, and extraction. It then progresses systematically to the detection of elements (C, H, N, S, halogens) and the identification of functional groups including carbonylic acids, esters, phenols, aldehydes, ketones, amines, and more.

Each experiment is meticulously designed to provide:

- A clear statement of objectives
- The principle and reaction mechanism
- Observation and inference tables

Practicality measures and safety protocols

The book emphasizes scientific reasoning, analytical thinking, and accurate reporting, encouraging students to relate laboratory outcomes to pharmaceutical relevance. By bridging theoretical knowledge with hands-on practice, the manual lays a strong foundation for advanced studies in organic synthesis, medicinal chemistry, and drug development.

This manual serves as an invaluable tool for students, faculty members, and laboratory instructors, ensuring a thorough and consistent grasp of the essential principles and practices of pharmaceutical organic chemistry.

ABOUT THE AUTHORS



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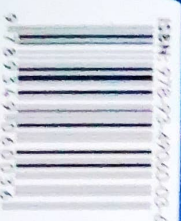
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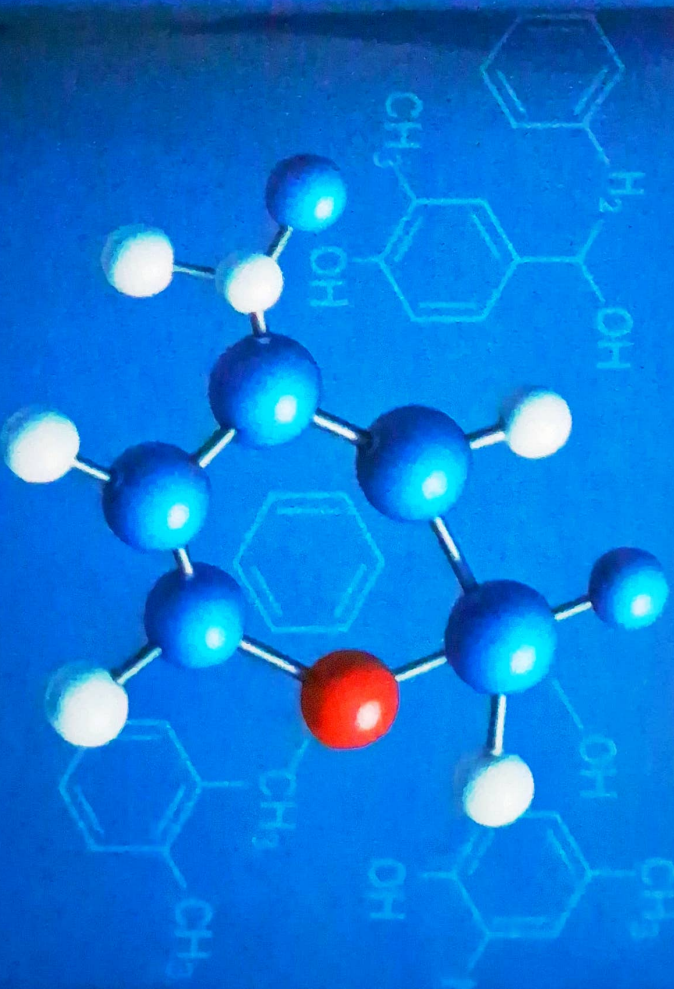
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PHARMACEUTICAL ORGANIC CHEMISTRY - I

CHEMISTRY - I

LAB MANUAL

I YEAR • II SEMESTER



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