



PHYSICAL PHARMACEUTICS II

BP 403T, Semester IV (As per PCI syllabus)

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PREFACE

PHYSICAL PHARMACEUTICS is the process of applying physics and chemistry to the study of pharmaceuticals. It makes it easier to comprehend the fundamental scientific ideas that underpin the creation and administration of pharmaceutical dosage forms that are liquid or semi-solid.

Physical pharmacy helped the pharmacist and pharmaceutical scientist predict the solubility, stability, compatibility, and biologic action of drug products by attempting to integrate the factual knowledge of pharmacy through the development of its own broad principles.

The area's level of integration with the biomedical facets of pharmacy practice has increased. Pharmacists' main objectives continue to be creating new medications and delivery methods as well as refining the various forms of administration.

A practicing pharmacist must also possess a thorough understanding of modern drug delivery systems as he or she advises patients on the best use of prescribed medicines. The study of the chemical and physical characteristics of medications and their dosage forms is the field of physical pharmacy.

Physical pharmacy is a component of the scientific basis for the clinical sciences and, by extension, for clinical practice when combined with other essential knowledge about how medications function, such as their pharmacologic effects.

One characteristic that sets physical pharmacy apart is that, in contrast to pharmacology, which is taught in varying degrees by other medical professionals, physical pharmacy is a body of knowledge that is exclusively

taught to student pharmacists, who are the target audience for this textbook. It offers the physicochemical foundation for logical drug delivery, formulation, manufacturing, compounding, and product usage.

Our aim in writing this book is to present physical pharmaceuticals for pharmacy students on modern lines. Keeping in view the requirements of the students and the teachers, this book has been written to cover all the topics with the desired limits of the prescribed syllabus. Hope this book will be useful and meets the requirements of students.

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