

Lecturers Title

Pharmaceutical consideration: The need for the dosage form.

General consideration for the dosage form.

Pre-formulation; physical description, microscopic examination.

Melting point; phase rule; particle size; polymorphism; solubility.

Permeability; pH; partition coefficient; pka; stability; kinetics; shelf life.

Rate reaction; enhancing stability.

Formulation consideration: Excipients; definition and types; appearance; palatability; flavoring.

Sweetening; coloring pharmaceuticals; preservatives; sterilization; preservatives selection.

Biopharmaceutical considerations: Principle of drug absorption; dissolution of the drugs.

Bioavailability and bioequivalency; FDA requirements.

Assessment of bioavailability; bioequivalence among drug products.

Pharmacokinetic principles: Half life; clearance; dosage regimen considerations