

**1ST SEMESTER
PHARMACEUTICS-I**

THEORY

3 hours / week

Module - I

Evolution of Pharmacy and Pharmaceutical Literature: History of Pharmacy in India. Drugs Enquiry Committee, 1930, Brief history and contribution of Prof. M.L. Scroff, Historical background and importance of various Pharmacopoeias with special reference to Indian Pharmacopoeia, International Pharmacopoeia and Extra Pharmacopoeia, Drug Formularies etc.

Orientation and Scope of Pharmacy : Pharmacy profession, legislations, ethics, oath, professionalism, careers, practice of community pharmacy, pharmacist in industry, pharmacist in government, pharmacist & public health, clinical pharmacy, information resources in pharmacy & pharmaceutical sciences.

Module – II

Introduction and classification of pharmaceutical dosage forms:

Principles and methods of preparation of aromatic waters, spirits, elixirs, glycerin, linctus, solutions, milks and magmas, mucilages and special preparations like pyroxylin and flexible collodions.

Module – III

Prescription: Various parts of prescription and their functions, handling of prescriptions, sources of errors, care required in dispensing procedures including labeling of dispensed products. Preliminary knowledge of important Latin terms used in prescriptions and their translation into English.

Pharmaceutical calculations and metrology : Metric and imperial systems of weights and measures used in prescriptions, posology, calculations of doses of infants, children, and elderly patients; reducing and enlarging formulae; percentage solutions; allegations methods; proof spirits; calculations involving alcohol dilutions.

Module – IV

Principles and procedures of dispensing prescriptions : Principles involved and procedures adopted in dispensing of liquid preparations such as mixtures, suspensions, emulsions, solutions, lotions, and liniments; semisolid preparations such as ointments, creams, pastes, jellies and suppositories; solid dosage forms such as powders, capsules, effervescent powders, tablet triturates and lozenges; paints, sprays, inhalations and poultices.

Module - V

Incompatibilities: Definitions, Types of incompatibility – Physical, Chemical and Therapeutic; Study of examples of prescriptions containing incompatibilities, their correction and dispensing methods.

Galenicals: Principles and methods of extraction, preparation of infusions, decoctions, tinctures, liquid, soft and dry extracts.