

PHARMACEUTICS - I **(Dispensing Pharmacy)**

PH 1.5 THEORY

3 hours/Week

UNIT –I

1. **Evolution of Pharmacy and Pharmaceutical Literature:** History of Pharmacy, Historical background and importance of various Pharmacopoeias with special reference to Indian Pharmacopoeia, International Pharmacopoeia and Extra Pharmacopoeia.
2. Introduction and classification of pharmaceutical dosage forms.
3. **Pharmacopoeial Preparations:** Principles and methods of preparation of aromatic waters, spirits, elixirs, glycerin, linctus, solutions, milks and magmas, mucilages and special preparations like pyroxylins and flexible collodions.

UNIT –II

4. **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
5. **Pharmaceutical calculations and metrology:** Metric and imperial systems of weights and measures used in prescriptions, posology, calculations of doses for infants, children, and elderly patients; reducing and enlarging formulae; percentage solutions; allegations methods; proof spirits; calculations involving alcohol dilutions.

UNIT –III

6. **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.

UNIT –IV

7. **Incompatibilities:** Definitions, Types of incompatibility – Physical, Chemical and Therapeutic;. Study of examples of prescriptions containing incompatibilities, their correction and dispensing methods.
8. **Galenicals:** Principles and methods of extraction, preparation of infusions, decoctions, tinctures, liquid, soft and dry extracts.