

CLINICAL PHARMACY & PHARMACOVIGILANCE

THEORY

3Hrs/Week

UNIT-I

1. Clinical pharmacy definition, components, scope, objectives, prospects and prospective in national and international scenario.
2. Introduction to rational Drug use: Definition, essential drug concept, rational drug formulation, role of pharmacist in rational drug use

UNIT-II

3. Introduction to different pharmacokinetic parameters, concept of volume of distribution, half life, clearance and their importance in clinical pharmacy.
4. Drug dosing, dose adjustment in renal failure, hepatic dysfunction, geriatric and pediatric patient.

UNIT-III

5. Introduction to daily activities of clinical pharmacist: Drug therapy monitoring (medication chart review, clinical review, pharmacist interventions), ward round participation, medication history, patient counselling, pharmaceutical care.
6. Drug information: Introduction to drug information, resources required, systemic approach in answering DI queries, critical evaluation of drug information and literature, Establishment of drug information centre.

UNIT - IV

7. Clinical laboratory tests used in evaluation of disease state: Haematological, liver function test, renal function test, thyroid function tests, tests associated with cardiac disorder, pulmonary function test, fluid and electrolyte balance.
8. Drug interaction: Definition, pharmacokinetic and pharmacodynamic aspect of drug interaction, some important drug interaction with OTC drug, food and alcohol.

UNIT-V

9. Adverse drug reaction: Types, mechanism, ADR reporting. drug concept, rational drug formulation, role of pharmacist in rational drug use.
10. Pharmacovigilance: Definition & concept of pharmacovigilance, key words used in pharmacovigilance (i.e. Adverse reaction, Adverse event, drug safety update report), on-line databases used for reporting ADRs (eg. Argns), report writing.

Reference books:

1. Designing Clinical Research. Edtd by Stephen B Hulley, Steven R Cummings.
2. Clinical Pharmacy & Therapeutics by Roger Walker
3. Drug Interaction by Stockley
4. Clinical Pharmacy Practice by G. Parthasarathi
5. Fundamentals of Clinical Pharmacy Practice by D.Sudheer Kumar