

PS703: PHARMACOLOGY – III**B. Pharm IV Year I sem**

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Course Objectives: This subject will provide an opportunity for the student to learn about the drug with regard to classification, pharmacodynamic and pharmacokinetic aspects, adverse effects, uses, dose, route of administration, precautions, contraindications and interaction with other drugs. The basic practical knowledge relevant to therapeutics will be imparted. This course is designed to impart knowledge and skills necessary for contribution to quality use of medicines. Chapters dealt cover briefly pathophysiology and mostly therapeutics of various diseases. This will enable the student to understand the pathophysiology of common diseases and their management.

Course Outcome : Understand the pharmacological aspects of drugs, importance of pharmacology subject as a basis of therapeutics and correlate the knowledge therapeutically. Knowledge on experimental methodologies on various animal models is carried out. The pathophysiology of selected disease states and the rationale for drug therapy and the therapeutic approach to management of these diseases.

UNIT - I**Drugs Acting on the Gastrointestinal Tract**

- Antacids, Antisecretory and Anti-ulcer Drugs
- Laxatives and antidiarrhoeal drugs
- Appetite Stimulants and Suppressants.
- Emetics and anti-emetics
- Miscellaneous; Carminatives, demulcents, protectives, adsorbents, astringents, digestants, enzymes and mucolytics.

UNIT - II**Chemotherapeutic agents and their applications:**

- General principles of chemotherapy.
- Sulphonamides and co-trimoxazole.
- Antibiotics: Penicillins, cephalosporins, betalactams,
- Tetracyclines aminoglycosides, chloramphenicol, erythromycin,
- Quinolones and miscellaneous antibiotics.

UNIT - III**Chemotherapy of following diseases**

- Tuberculosis
- Leprosy
- Urinary tract infections
- Fungal diseases
- Viral diseases,

UNIT - IV

- Antineoplastic agents
- Immunopharmacology: Immunosuppressants and Immunostimulants
- Antimalarial & Anti-protozoal agents
- Anti-filarial agents

UNIT - V

Principles of Toxicology: Definition of poison, general principles of treatment of poisoning with

particular reference to barbiturates opioids, organ phosphorous and atropine poisoning. Heavy metals and heavy metals antagonists, Diagnostic agents.

TEXT BOOKS

1. Tripathi, Textbook of Pharmacology, JAYPEE
2. F.S.K Barar, Essentials of Pharmacotherapeutics.
3. H.P Rang, M. M. dale & J.M. Ritter, Pharmacology, : Churchill Living stone, 4th Ed.

REFERENCES

1. Sathoskar, Pharmacology and pharmacotherapeutics Vol. 1 & 2, Publ by Popular Prakashan, Mumbai Crossland, Lewis 's Pharmacology, Church living stone
2. Mark A. Simmons, Pharmacology An Illustrated Review