

BP602T. PHARMACOLOGY-III (Theory)

45 Hours

Course Content

Unit-I

10 hours

Pharmacology of drugs acting on Respiratory system:

Anti-asthmatic drugs.

Drugs used in the management of COPD.

Expectorants and antitussives.

Nasal decongestants.

Respiratory stimulants.

Pharmacology of drugs acting on the Gastrointestinal Tract:

Antiulcer agents.

Drugs for constipation and diarrhoea.

Appetite stimulants and suppressants.

Digestants and carminatives.

Emetics and anti-emetics.

Unit-II

10 hours

Chemotherapy: General principles of chemotherapy.

Sulfonamides and Cotrimoxazole.

Antibiotics- Penicillins, cephalosporin, chloramphenicol, macrolides, quinolones and fluoroquinolones, tetracycline and aminoglycosides.

Unit-III

10 hours

Chemotherapy:

Antitubercular agents.

Antileprotic agents.

Antifungal agents.

Antiviral drugs.

Anthelmintics.

Antimalarial drugs.

Antiamoebic agents.

Unit-IV**08 hours****Chemotherapy:**

Urinary tract infections and sexually transmitted diseases.

Chemotherapy of malignancy.

Immunopharmacology:

Immunostimulants.

Immunosuppressant.

Protein drugs, monoclonal antibodies, target drugs to antigen, biosimilars.

Unit-V**07 hours****Principles of toxicology:**

Definition and basic knowledge of acute, sub-acute and chronic toxicity.

Definition and basic knowledge of genotoxicity, carcinogenicity, teratogenicity and mutagenicity.

General principles of treatment of poisoning.

Clinical symptoms and management of barbiturates, morphine, and organophosphorus compound and lead, mercury and arsenic poisoning.

Chronopharmacology:

Definition of rhythm and cycles.

Biological clock and their significance leading to chronotherapy.