**Pharmacology Theory Paper wise course distribution**

**Paper I**

1. **General pharmacology** - Sources of drugs, Dosage forms, Routes of drug administration, Pharmacokinetics(Absorption, distribution, metabolism and excretion, Bioavailability, Half life etc) and Pharmacodynamics(Mechanism of drug action, Drug Interaction, Combined drug effect, Adverse drug effect, Pharmacogenetics and pharmacogenomics), Factors affecting drug action, Drug use in paediatric and geriatric patients, drugs used in pregnancy and lactation, Sources of drug information, Essential drug and RUD , Evidence based medicine, Generic medicine, New Drug development.
2. **Drugs acting on autonomic nervous system** ( Adrenergic agonists and antagonists, Cholinergic agonists and antagonists) and Central & Peripheral skeletal muscle relaxants
3. **Drugs acting on Central Nervous System** – Sedative hypnotics and anxiolytics, antipsychotics, antidepressants, drugs used in bipolar disorder, antiepileptics, General anaesthesia, Local anaesthesia, drugs used in neurodegenerative disorders, opioids, drug abuse and addiction, psychodelic drugs.
4. **GIS** ( anti pepticulcer drugs, Drugs used in GERD, anti diarroheals, antiemetics, drugs used in constipation, ORS, drugs used in IBS and IBD)
5. **Respiratory system**- Anti asthmatic drugs, Cough suppressants and mucolytics
6. **Autacoids** (Antihistamines, 5HT receptor modulators, Prostaglandin receptor modulators, Bradykinin, NO, RAAS ), NSAIDs, drugs used in rheumatoid arthritis and gout.
7. **Management of poisoning and heavy metal antagonists**

**Paper II**

1. **Cardiovascular system** (antihypertensives, antianginal drugs , drugs used in heart failure, antiarrhythmics), Lipid lowering drugs and management of shock**.**
2. **Endocrine pharmacology** (hormones and antihormones) : drugs acting on pituitary gland, gonadotrophins, GnRH analouges, thyroid and antithyroids, corticosteroids, sex steroids, treatment of infertility & impotence, antidiabetics , drugs used in calcium balance.
3. **Drugs acting on Uterus** ( oxytocics, tocolytics)
4. **Diuretics** (renal Pharmacology)
5. **Haematinics** (Iron, Vit B12, folic acid), Haematopoetic factors, anticoagulants, antiplatelets, fibrinilytics and antifibrinolytics.
6. **Immunosuppressant and immune stimulants**
7. **Antimicrobials** (Beta lactam antibiotics, aminoglycosides, Macrolides, tetracycline and chlorampehenicols, Quinolones, sulphonamides)
8. **Chemotherapeutic agents-** Antimalarials, anti TB, Anti leprotic, Antihelminthetics, anticancer, anti filarials, anti fungal, antivirals including anti HIV drugs.
9. **Miscellaneous:** Drugs used in dermatology, Drugs used in Ophthalmology, antiseptic disinfectants, Vitamins & enzymes, Vaccines and sera