BP503T. PHARMACOLOGY-II (Theory) **45 Hours**

Course Content:

Unit-I **10 Hours**

Pharmacology of drugs acting on cardio-vascular system

Introduction to hemodynamic and electrophysiology of heart Drugs used in congestive heart failure.
Anti-hypertensive drugs.
Anti-anginal drugs.
Anti-arrhythmic drugs.
Anti-hyperlipidemic drugs.

Unit-II **10 Hours**

Pharmacology of drugs acting on cardio vascular system

Drug used in the therapy of shock.
Hematinics, coagulants and anticoagulants.
Fibrinolytics and anti-platelet drugs.
Plasma volume expanders.

Pharmacology of drugs acting on urinary system

Diuretics.
Anti-diuretics.

Unit-III **10 Hours**

Autacoids and related drugs

Introduction to autacoids and classification of Histamine, 5-HT and their antagonists.
Prostaglandins, Thromboxanes and Leukotrienes.
Angiotensin, Bradykinin and Substance P.
Non-steroidal anti-inflammatory agents.
Antigout drugs, Anti rheumatic drugs.

Unit-IV **08 Hours**

Pharmacology of drugs acting on endocrine system

Basic concepts in endocrine pharmacology.
Anterior Pituitary hormones- analogues and their inhibitors.
Thyroid hormones- analogues and their inhibitors.
Hormones regulating plasma calcium level- Parathormone, Calcitonin and Vitamin D.
Insulin, Oral Hypoglycemic agents and glucagon. ACTH and corticosteroids.

Unit-V **07 Hours**

Pharmacology of drugs acting on endocrine system

Androgens and Anabolic steroids. Estrogens, progesterone and oral contraceptives. Drugs acting on the uterus.

Bioassay

Principles and applications of bioassay. Types of bioassay.
Bioassay of insulin, oxytocin, vasopressin, ACTH, d-tubocurarine, digitalis, histamine and 5-HT.