

## **CY-512 DRUG AND HETEROCYCLIC CHEMISTRY**

**Drug design:** Development of new drugs, procedures followed in drug design, concepts of pro drugs and soft drugs, theories of drug activity, quantitative structure activity relationship (QSAR), concepts of drug receptors

**Study of the drugs:** Antibiotics, anti-malarial, analgesic & antipyretics, anti-inflammatory, anti-tubercular & anti-leprotic, anaesthetics, antihistamines, tranquilizers, anti AIDS, cardiovascular, anti-neoplastic drugs, cancer chemotherapy, recent development in cancer chemotherapy, hormones and natural products.

**Synthesis and reactions of Heterocycles:** a) Small ring heterocycles: Three membered and four membered Heterocycles, b) Benzo- fused five membered heterocycles, c) Six membered heterocycles with one heteroatom, d) Six membered heterocycles with two and more heteroatoms, e) Seven membered heterocycles.

.

.