

# Gujarat Technological University

## M. Pharm.

Semester – III

Paper code -930106

## Applied Pharmacotherapeutics – II

Subject of Specialization Paper- V (Clinical Pharmacy)

### Theory

(Four hours per week, 7 credits)

#### Pathophysiology, Diagnosis & Pharmacotherapeutic management of acute and chronic diseases

1. **Haemopoetic:** Anemias, Coagulation diseases.
2. **Joint and Connective Tissue:** Rheumatoid arthritis, osteoarthritis, gout and hyperuricemia
3. **Neoplastic:** Acute leukemias, Hodgkins disease, carcinoma of breast, Liver tumors, gastrointestinal cancers, lung cancer, prostate cancer, pediatric solid tumors, gynecological cancers and skin cancers.
4. **Infections:** Various infectious diseases including Tuberculosis, urinary tract infections, enteric infections, upper respiratory tract infections, Pneumonia, Intraabdominal infections, gastrointestinal infections, bone and joint infections, sepsis, parasitic infections, sexually transmitted diseases and AIDS
5. **Renal:** Acute renal failure, chronic renal failure.
6. **Diseases of skin:** Contact dermatitis, Acne Vulgaris, psoriasis, warts, burns.
7. **Eye:** Glaucoma & Conjunctivitis
8. **Reproductive System:** Male and Female reproductive system and their hormones. Physiology of menstruation, coitus and fertilization. Sex differentiation, spermatogenesis, pregnancy its maintenance and parturition
9. **Managing ICUs, T.P.N. and Emergencies**
10. **Concept of acute care medicine**
11. **General treatment guideline for: Pediatric patients, geriatric patients, pregnancy & lactating mother**

# **Applied Pharmacotherapeutics – II**

## **Subject of Specialization Paper- V (Clinical Pharmacy)**

### **Practical**

**(Six hours per week, 8 credits)**

Each student has to undergo compulsory Hospital postings for understanding and gaining knowledge of Pathophysiology, Diagnosis & Pharmacotherapeutic management various diseases and disorders.

It is mandatory that each student has to maintain a record of at least 15 case studies based on the theory topics

**Assignments:** The students are required to submit a minimum of two written assignments selected from the topics given to them.

### **Reference Books:**

1. Clinical Pharmacy and Therapeutics. Roger Walker and Clive Edwards, Churchill Livingstone publication
2. Text Book of Therapeutics: Drug and Disease Management. 7th Edition. Editors: Eric T. Herfindal and Dick R. Gourley, Williams and Wilkins
3. Pathology & Therapeutics for Pharmacists. Russel. J. Greene and Normal F. Harris. Chapman & Hall, London/ Glasgow/ Madras.
4. Robbins Pathologic Basis of Disease. Cartran, Kumar, Collins, W.B.Saunders. Latest edition.
5. Applied Therapeutics: The Clinical Use of Drugs Eds. Brian S.Katcher, Lloyd Yee Young, Marry Anne Koda-Kimble, Applied Therapeutics Inc. Spokane. Latest Edition.
6. Pharmacotherapy: A Pathophysiologic approach – Joseph T. Dipiro et al. Appleton & Lange
7. Harrison's Principles of Internal Medicine. Medical Toxicology (Ellen Horns)
8. Davidson's Principle and Practice of Medicine, Eds. Christopher R. W., Edwards & Ian A.D. Boucher ELBS with Churchill Living stone. Edinburgh. Latest Edition.
9. Avery's Drug Treatment, 4th End, 1997 Adis International Limited
10. Relevant review articles from recent medical and pharmaceutical literature.