

Gujarat Technological University

Master of Pharmacy

Semester – II

Paper code -2920106

Specialization paper - III

Applied Pharmacotherapeutics - I

Theory

(Six hours per week, 7 credits)

Pathophysiology, Diagnosis & Pharmacotherapeutic management of following acute and chronic diseases and disorders

Basic Concepts of Pathophysiology and Pharmacotherapeutics

1. Cardiovascular

Hypertension, angina pectoris, congestive heart failure, myocardial infarction, cardiac arrhythmias.

2. Gastrointestinal

Peptic ulcer disease, Inflammatory Bowel diseases, hepatitis, cirrhosis, nausea and vomiting, constipation and diarrhea.

3. Respiratory

Chronic obstructive pulmonary disease, bronchial asthma, cystic fibrosis.

4. CNS

Epilepsy, Parkinsonism, schizophrenia, migraine, Alzheimer disease, Huntington's chorea, Spasticity), behavioral disorder-(Anxiety, Insomnia, Depression and Mania)

5. Endocrine

Endocrinal disorders including Diabetes mellitus, thyroid (hyperthyroidism and hypothyroidism), parathyroid diseases, hyperlipidemia and Adrenocortical dysfunction.

Specialization paper - III

Applied Pharmacotherapeutics - I

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 of 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.

References 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 or Drugs Eds. Brian S.Katcher, Liloyd 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 Harrisons 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 ChuOrchill 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.