

Gujarat Technological University

Master of Pharmacy

Semester – II

Specialization paper - III

Applied Pharmacotherapeutics - I

Theory

(Four hours per week, 6 credits)

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

1. Basic Concepts of Pathophysiology and Pharmacotherapeutics

2 Cardiovascular

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

3 Gastrointestinal

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

4 Respiratory

Chronic obstructive pulmonary disease, bronchial asthma, cystic fibrosis.

5 CNS

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

6 Endocrine

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

Specialization paper - III
Applied Pharmacotherapeutics - I
Practical
(Four hours per week, 6 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 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.