

# GUJARAT TECHNOLOGICAL UNIVERSITY

M.Pharm

PHARMACY PRACTICE

SEMESTER: II

**Subject Name:** Pharmacotherapeutics - II

**Subject Code:** MPP 202T

## Scope:

This course aims to enable the students to understand the different treatment approaches in managing various disease conditions. Also, it imparts knowledge and skills in optimizing drug therapy of a patient by individualizing the treatment plan through evidence-based medicines.

## Objectives:

Upon completion of this course it is expected that students shall be able to:

- Describe and explain the rationale for drug therapy
- Summarize the therapeutic approach for management of various disease conditions including reference to the latest available evidence
- Discuss the clinical controversies in drug therapy and evidence based medicine
- Prepare individualized therapeutic plans based on diagnosis
- Identify the patient specific parameters relevant in initiating drug therapy, and monitoring therapy (including alternatives, time- course of clinical and laboratory indices of therapeutic response and adverse effect/s)

Sr.	Topic	Hr
	Etiopathogenesis and pharmacotherapy of diseases associated with following systems	
1.	Nervous system: Epilepsy, Parkinson's disease, Stroke, Headache, Alzheimer's disease, Neuralgias and Pain pathways and Pain management.	12
2.	Psychiatric disorders: Schizophrenia, Depression, Anxiety disorders, Sleep disorders, Drug induced psychiatric disorders  Renal system: Acute renal failure, Chronic renal failure, Renal dialysis, Drug induced renal disease	12
3.	Infectious diseases: General guidelines for the rational use of antibiotics and surgical prophylaxis, Urinary tract infections, Respiratory tract infections, Gastroenteritis, Tuberculosis, Malaria, Bacterial endocarditis, Septicemia.	12
4.	Infectious diseases: Meningitis, HIV and opportunistic infections, Rheumatic fever, Dengue fever, H1N1, Helmenthiasis, Fungal infections  Gynecological disorders: Dysmenorrhea, Hormone replacement therapy.	12
5.	Oncology: General principles of cancer chemotherapy, pharmacotherapy of breast cancer, lung cancer, head & neck cancer, hematological malignancies, Management of nausea and vomiting, Palliative care	12

## REFERENCES

1. Roger and Walker. Clinical Pharmacy and Therapeutics – Churchill Livingstone publication.

2. Joseph T. Dipiro et al. Pharmacotherapy: A Pathophysiologic Approach- Appleton & Lange
3. Robins SL. Pathologic basis of disease -W.B. Saunders publication 4. Eric T. Herfindal. Clinical Pharmacy and Therapeutics- Williams and Wilkins Publication
4. Lloyd Young and Koda-Kimble MA Applied Therapeutics: The clinical Use of Drugs- Lippincott Williams and Wilkins
5. Chisholm- Burns Wells Schwinghammer Malone and Joseph P Dipiro. Pharmacotherapy Principles and practice— McGraw Hill Publication
6. Carol Mattson Porth. Principles of Pathophysiology- Lippincott Williams and Wilkins
7. Harrison's. Principles of Internal Medicine - McGraw Hill
8. Relevant review articles from recent medical and pharmaceutical literature