GUJARAT TECHNOLOGICAL UNIVERSITY
BACHELOR OF PHARMACY
SEMESTER: VIII

Subject Name: **Clinical Pharmacy - II**
Subject Code: **280006**

[THEORY]

Sr. No.	Course Contents	Total Hrs
1.	**Drug interactions :** Prescription monitoring, documentation and methods for minimizing clinically relevant drug interactions	01
2.	Drug induced diseases, adverse drug reactions and Pharmacovigilance	02
3.	**Pathophysiology, risk factors, diagnosis, complications, treatment & prognosis of the following diseases/conditions:**	
	Respiratory: Bronchial asthma, COPD	02
	Gastrointestinal: Peptic Ulcer Disease, Inflammatory Bowel Disease, Hepatitis	05
	Endocrine: Diabetes mellitus, Thyroid disorders, Parathyroid disorders, Osteoporosis, Hormone Replacement Therapy	06
	Rheumatoid arthritis and gout	02
	Neoplastic : Leukemia, Lymphomas, Breast Cancer, Cervical Cancer, Prostrate Cancer	07
	Infections: Tuberculosis, Urinary Tract Infections, Enteric Infections, Meningitis, Respiratory Tract Infections, Septicemia, Skin And Soft Tissue Infections (Cellulites, Bed Sores, Diabetic Foot Infection), Leptospirosis, Syphillis, Nosocomial Infection, Filariasis, Leishmaniasis, Gonorrhoea, Viral Infections (AIDS, Bird Flu, Swine Flu, Congo Fever, Chickenguniya, SARS (Sub Acute Respiratory Syndrome), Surgical Antibiotics Prophylaxis	16
	Obesity	01

	Glaucoma	01
4.	**Pharmacoeconomics**	02

[PRACTICALS]

Sr. No.	Course Contents	Total Hrs
1.	To audit given prescription for format of prescription, essentiality and rationality and suggest carry home message (three experiments containing three prescriptions each, in totality nine prescriptions, covering various diseases or organ-systems)	9
2.	To evaluate formulations on anemia, diarrhoea and cough for their essentiality and rationality and also provide carry home message (two experiments containing five formulations each for anemia, diarrhoea and cough, thus in totality 30 formulations).	6
3.	To suggest appropriate parenteral nutrition for hospitalized patients after proper nutritional assessments in different conditions, and enlist importance of medications necessary in a pharmacy for Intensive Care Unit management.	3
4.	To evaluate drug-drug interactions for the type of drug interaction, the mechanism responsible for drug interactions, possible outcomes or clinical manifestations of interaction and suggestion corrective measure to overcome or prevent the drug interaction (at-least 25 drug-drug interactions).	3
5.	To evaluate cases for Interpretation of laboratory data (Min. six full cases with clinical and other relevant findings)	6
6.	To evaluate two cases involving skills of pharmacist for patient counselling.	3
7.	To evaluate for dose adjustment in geriatrics, pediatrics and pregnant women (Min. three cases each)	9
8.	To evaluate cases for Therapeutic Drug Monitoring (TDM) (Min. two cases)	3
9.	Collecting information for a given drug (Preferably recently approved drugs) regarding adverse drug reactions, drug interactions and contraindications using authenticated sources (Recent text books, Latest Journals and online drug data bases such as medscape).	3

Text Books :

1. Text Book of Therapeutics: Drug and Disease Management. 8th Ed. Editors: Eric T.Herfindal and Dick R. Gurley, Williams and Wilkins, 2006
2. Clinical Pharmacy and Therapeutics. Roger Walker and Clive Edwards, Churchill Livingstone Edinburgh / London,4th ed,2008
3. A text book of Clinical Pharmacy Practice (Essential concepts and skills). G. Parthasarhi, Karin Nyfort-Hansen & Milap C Nahata. University Press impression, 2008

Reference Books:

1. 1.Pathology & Therapeutics for Pharmacists. Russell J. Greene and Norman F. Harris.Chapman & Hall, London / Glasgow / Madras.
2. Davidson's Principle and Practice of Medicine, Eds. Christopher R.W. Edwards & Ian A.D. Boucher ELBS with Churchill Livingstone, Edinburgh.
3. Applied Therapeutics: The Clinical Use of Drugs Eds. Brian S. Katcher, Lloyd YeeYoung, Marry Anne Koda-Kimble, Applied Therapeutics Inc.
4. Melmon and Morrelli's Clinical Pharmacology, 4th Edition. Authors: S.GeorgeCarrathers, Brian B. Hoffman, Kenneth L. Melmon and David W. Nierenberg. McGraw Hill, 2000.
5. Pharmacotherapy: A Pathophysiological Approach. J. T. Dipiro, R. L. Talbert etal, McGraw-Hill, New York