

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**BACHELOR OF PHARMACY**  
Semester: VI

Subject Name: **Clinical Pharmacy-I**

Subject Code: **260005**

<b>Sr. No.</b>	<b>Course contents</b>	<b>Teaching Hours</b>
<b>1.</b>	<b>Introduction:</b> Development and scope of clinical pharmacy, concept of health care team, Role of clinical pharmacist as a member of health care team and his/her important functions	02
<b>2.</b>	<b>Basic concepts of pharmacotherapy:</b> <ol style="list-style-type: none"> <li>Recording of medication history, self medication, nonprescription drug usage, improving patient compliance and providing patient counseling, Communication skills- Behavioral and interpersonal, with patients and other professionals.</li> <li>Drugs used in special population: children, elderly (pediatric and Geriatric considerations) and pregnant women.</li> <li>Interpretation of clinical laboratory tests: Hematological, pathological and biochemical investigations as markers of Major organ damage and their effect on drug therapy decisions.</li> </ol>	15
<b>3.</b>	<b>Pathophysiology, Risk Factors, Complications and Management of the Following Diseases:</b> <ol style="list-style-type: none"> <li>CNS: Epilepsy, Parkinsonism, Alzheimer, Schizophrenia, Affective disorders, Pain and Migraine.</li> <li>Cardiovascular: Hypertension, Coronary heart disease, Thrombosis, Stroke, Congestive heart failure, Cardiac arrhythmias and Dyslipidemia.</li> <li>Renal: Acute renal failure, Chronic renal failure.</li> <li>Anemia</li> </ol>	22
<b>4.</b>	<b>Clinical Toxicology:</b> Definition of Poison and General Principles of Treatment of Poisoning with particular reference to Barbiturates, Opioids, Organophosphorus, Atropine and Heavy Metal.	02
<b>5.</b>	Concept of essential drugs and Rational drug use	02
<b>6.</b>	Therapeutic drug monitoring	02

**Books Recommended:**

1. Clinical Pharmacy and Therapeutics. Roger Walker and Clive Edwards, Churchill Livingstone Edinburgh / London.
2. Pathology & Therapeutics for Pharmacists. Russell J. Greene and Norman F. Harris. Chapman & Hall, London / Glasgow / Madras.
3. Text Book of Therapeutics: Drug and Disease Management. 7th Ed. Editors: Eric T. Herfindal and Dick R. Gurley, Williams and Wilkins, 2000
4. Davidson's Principle and Practice of Medicine, Eds. Christopher R.W. Edwards & Ian A.D. Boucher ELBS with Churchill Livingstone, Edinburgh.
5. Applied Therapeutics: The Clinical Use of Drugs Eds. Brian S. Katcher, Lloyd Yee Young, Marry Anne Koda-Kimble, Applied Therapeutics Inc.
6. Melmon and Morrelli's Clinical Pharmacology, 4th Edition. Authors: S.George Carrathers, Brian B. Hoffman, Kenneth L. Melmon and David W. Nierenberg. McGraw Hill, 2000.
7. Pharmacotherapy: A Pathophysiological Approach. J. T. Dipiro, R. L. Talbert et al, McGraw-Hill, New York.