GUJARAT TECHNOLOGICAL UNIVERSITY

M.Pharm CLINICAL PHARMACY SEMESTER: I

Subject Name: Clinical Pharmacy Practice- I

Subject Code: MCP101T

Scope:

Objectives:

Sr.	Topic	Hr
1.	Definitions, development and scope of clinical pharmacy	2
2.	Pharmaceutical care concept	2
3.	Role of clinical Pharmacist in the health care system	2
4.	Routine activities of clinical Pharmacist	15
	a) Drug Therapy monitoring: Medication chart review, Clinical review,	
	Pharmacist interventions.	
	b) Ward round participation	
	c) Recording of Medical History	
	d) Adverse drug reaction monitoring	
	e) Communication skills including patient counseling techniques	
	f) Drug utilization evaluation and review	
5.	Quality assurance of clinical pharmacy services	02
6.	Concept of essential drugs and rational drug usage	04
7.	Interpretation of clinical laboratory tests: Hematological, liver function, renal	10
	function, thyroid function tests	
	Tests associated with cardiac disorders	
	Fluid and electrolyte balance	
	Micorbiological culture sensitivity tests	
	Pulmonary function tests	
8.	Patient data analysis and Case presentation	04
9.	drug induced diseases	04
10.	Drug interactions Documentation and other methods for minimizing clinically	05
	relevant drug interactions	
11.	Pharmacoeconomics: Definition, history, needs of pharmacoeconomic evaluations	08
	Outcome assessment and types of phamacoeconomic evaluations: cost-minimization,	
	cost-benefit, cost-effectiveness, cost utility.	
	Applications of pharmacoeconomics: case study	
12.	Critical evaluation of biomedical literature	02

REFERENCES:

- 1. Basic Skills in interpreting laboratory data Scott LT, American Society of Health System Pharmacists Inc.
- 2. Biopharmaceutics and Applied Pharmacokinetics Leon Shargel, Prentice Hall Publication.

- 3. A textbook of Clinical Pharmacy Practice; Essential concepts and skills, Dr. G. Parthasarthi et al.
- 4. Australian drug information- Procedure manual. The Society of Hospital Pharmacists of Australia.
- 5. Textbook of Medical laboratory Technology. Praful B. Godkar, Darshan P.Godkar, Bhalani Publication House, Mumbai. 2nd edition.
- 6. Clinical Pharmacokinetics- Rowland Tozer, Williams and Wilkins Publication. Pharmaceutical Statistics. Practical and clinical applications. Sanford Bolton, Marcel
- 7. Dekker Inc. Minor Illness in Major Diseases-the Clinical Manifestation in the Community: Paul Stillman
- 8. Drug Interaction Facts, 2003. David S. Tatro.
- 9. Hand Book of Pharmacy Health Care. The Pharmaceutical Press
- 10. Manual of basis techniques for a health laboratory, 2nd edition, World Health Organization, Geneva.
- 11. Text Book of Clinical Pharmacy Practice. Edt. G. Parthasarathi, Karin Nyfort Hansen and Milap. C.Nahata. Orient Longman Publications.
- 12. Pharmacy Practice: Tayler, Harding
- 13. Stockley's Drugs Interaction: Karen Baxter
- 14. Cooper and Gunn: Dispensing for Pharmacy Students.
- 15. A text book Professional Pharmacy by N. K. Jain and S. N. Sharma.
- 16. Introduction to Pharmaceutical dosage forms by Howard C. Ansel.
- 17. Remington's Pharmaceutical Sciences
- 18. D.M. Brahmankar and Sunil B Jaiswal. Text Book of Biopharmaceutics and
- 19. Pharmacokinetics A treatise. Vallabh Prakashan. Delhi.
- 20. Biopharmaceutics by Swarbrik
- 21. Bio pharmaceutics and Clinical Pharmacokinetics by Milo Gibaldi.
- 22. Basic Skills in interpreting laboratory data Scott LT, American Society of Health
- 23. System Pharmacists Inc.
- 24. Textbook of Medical laboratory Technology. Praful B. Godkar, Darshan P.Godkar, Malcolm Rowland & Thomasn Tozer. Clinical Pharmacakinetics & Concepts and Applications Lippincott Williams & Wilkins 1995 Bhalani Publication House, Mumbai. 2nd edition.
- 25. Clinical Pharmacokinetics- Rowland Tozer, Williams and Wilkins Publication.
- 26. Pharmaceutical Statistics. Practical and clinical applications. Sanford Bolton, Marcel Dekker Inc.
- 27. Drug Interaction Facts, 2003. David S. Tatro.
- 28. Hand Book of Pharmacy Health Care. The Pharmaceutical Press Manual of basis techniques for a health laboratory, 2nd edition, World Health Organization, Geneva.

- $29. \ Textbook \ of \ The rapeutics \ Drug \ Disease \ Management-Eric \ T. Herfindal \ and \ Dick \ R. Gourley.$
- 30. Comprehensive Pharmacy Review- Shargel Leon
- 31. Melmon and Morrells Clinical Pharmacology 4th Edition S George Carrythers