

GUJARAT TECHNOLOGICAL UNIVERSITY

Bachelor of Pharmacy Subject Code: BP703TT SEMESTER: VII

Subject Name: Pharmacy Practice

Scope: In the changing scenario of pharmacy practice in India, for successful practice of Hospital Pharmacy, the students are required to learn various skills like drug distribution, drug information, and therapeutic drug monitoring for improved patient care. In community pharmacy, students will be learning various skills such as dispensing of drugs, responding to minor ailments by providing suitable safe medication, patient counselling for improved patient care in the community set up.

Objectives: Upon completion of the course the student shall be able to

- 1. know various drug distribution methods in a hospital
- 2. appreciate the pharmacy stores management and inventory control
- 3. monitor drug therapy of patient through medication chart review and clinical review
- 4. obtain medication history interview and counsel the patients
- 5. identify drug related problems
- 6. detect and assess adverse drug reactions
- 7. interpret selected laboratory results (as monitoring parameters in therapeutics) of specific disease states
- 8. know pharmaceutical care services
- 9. do patient counseling in community pharmacy;
- 10. appreciate the concept of Rational drug therapy

Teaching scheme and examination scheme:

Teaching Scheme				Evaluation Scheme			
Theory	Tutorial	Practical	Total	Theory		Practical	
				External	Internal	External	Internal
3	1	0	4	80	20	0	0

Sr No	Topics	%
		weightage
1.	a) Hospital and it's organization	10
	Definition, Classification of hospital- Primary, Secondary and Tertiary	
	hospitals, Classification based on clinical and non- clinical basis, Organization	
	Structure of a Hospital, and Medical staffs involved in the hospital and their	
	functions.	
	b) Hospital pharmacy and its organization	
	Definition, functions of hospital pharmacy, Organization structure, Location,	
	Layout and staff requirements, and Responsibilities and functions of hospital	
	pharmacists.	
	c) Adverse drug reaction	
	Classifications - Excessive pharmacological effects, secondary pharmacological	
	effects, idiosyncrasy, allergic drug reactions, genetically determined toxicity,	
	toxicity following sudden withdrawal of drugs, Drug interaction- beneficial	
	interactions, adverse interactions, and pharmacokinetic drug interactions,	
	Methods for detecting drug interactions, spontaneous case reports and record	
	linkage studies, and Adverse drug reaction reporting and management.	
	d) Community Pharmacy	
	Organization and structure of retail and wholesale drug store, types and design,	
	Legal requirements for establishment and maintenance of a drug store,	
	Dispensing of proprietary products, maintenance of records of retail and	
	wholesale drug store.	
2.	a) Drug distribution system in a hospital	10



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policy and labelling, Dispensing of drugs to ambulatory patients, and Dispensing of controlled drugs. b) Hospital formulary Definition, contents of hospital formulary, Differentiation of hospital formulary and Drug list, preparation and revision, and addition and deletion of drug from hospital formulary. c) Therapeutic drug monitoring Need for Therapeutic Drug Monitoring, Factors to be considered during the Therapeutic Drug Monitoring, and Indian scenario for Therapeutic Drug Monitoring. d) Medication adherence Causes of medication non-adherence, pharmacist role in the medication adherence, en monitoring of patient medication adherence. e) Patient medication history interview Need for the patient medication history interview, medication interview forms. f) Community pharmacy management Financial, materials, staff, and infrastructure requirements. 3. Pharmacy and therapeutic committee Organization, functions, Policies of the pharmacy and therapeutic committee in including drugs into formulary, inpatient and outpatient prescription, automatic stop order, and emergency drug list preparation. b) Drug information services Drug and Poison information centre, Sources of drug information, Computerised services, and storage and retrieval of information. c) Patient counseling Definition of patient counseling; steps involved in patient counseling, and Special cases that require the pharmacist d) Education and training program in the hospital Role of pharmacist in the education and training program, Internal and external training program, Services to the nursing homes/clinics, Code of ethics for communication and communication and communication skills reservices medication order and communication skills Prescribed medication order interpretation and legal requirements, and Communication skills-communication with prescribers and patients. a) Budget preparation and implementation b) Clinical Pharmacy Introduction of Clinical pharmacy, Concept of clinical pharmacy, functions and responsibilities of clinical pharmacist,		Subject Code: BP/0311	
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procurement and stocking, Economic order quantity, Reorder quantity level, and	1	procurement and stocking, Economic order quantity, Reorder quantity level, and	
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b) Investigational use of drugs		Methods used for the analysis of the drug expenditure	



GUJARAT TECHNOLOGICAL UNIVERSITY

Bachelor of Pharmacy Subject Code: BP703TT

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Description, principles involved, classification, control, identification, role of	
hospital pharmacist, advisory committee.	
c) Interpretation of Clinical Laboratory Tests	
Blood chemistry, hematology, and urinalysis	

Recommended Books (Latest Editions)

- 1. Merchant S.H. and Dr. J.S.Quadry. *A textbook of hospital pharmacy*, 4th ed. Ahmadabad: B.S. Shah Prakakshan; 2001.
- 2. Parthasarathi G, Karin Nyfort-Hansen, Milap C Nahata. *A textbook of Clinical Pharmacy Practice- essential concepts and skills*, 1st ed. Chennai: Orient Longman Private Limited; 2004.
- 3. William E. Hassan. *Hospital pharmacy*, 5th ed. Philadelphia: Lea & Febiger; 1986.
- 4. Tipnis Bajaj. Hospital Pharmacy, 1st ed. Maharashtra: Career Publications; 2008.
- 5. Scott LT. *Basic skills in interpreting laboratory data*, 4thed. American Society of Health System Pharmacists Inc; 2009.
- 6. Parmar N.S. *Health Education and Community Pharmacy*, 18th ed. India: CBS Publishers & Distributers; 2008.

Journals:

- 1. Therapeutic drug monitoring. ISSN: 0163-4356
- 2. Journal of pharmacy practice. ISSN: 0974-8326
- 3. American journal of health system pharmacy. ISSN: 1535-2900 (online)
- 4. Pharmacy times (Monthly magazine)