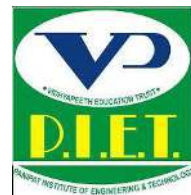


PANIPAT INSTITUTE OF ENGINEERING AND TECHNOLOGY

Department of Pharmacy

Course: Bachelore of Pharmacy



LESSON PLAN

Faculty Name: Ms. Saiphali	Subject Name: Pharmacy practice
Class: B.Pharmacy 7th Sem	Subject Code: BP703T

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.

Number of Lectures: 45

Each Lecture: 01 Hour

Lecture No.	Particular	Date/ Remark
UNIT-I (10Hrs)		
Hospital and it's organization		
1.	Definition, Classification of hospital- Primary, Secondary and Tertiary hospitals,	
2.	Classification based on clinical and non- clinical basis,	
3.	Organization Structure of a Hospital	
4.	Medical staffs involved in the hospital and their functions	
5.	Hospital pharmacy and its organization Definition, functions of hospital pharmacy, Organization structure, Location, Layout and staff requirements, and Responsibilities and functions of hospital pharmacists.	
6.	Adverse drug reaction	

	Classifications - Excessive pharmacological effects, secondary pharmacological effects, idiosyncrasy, allergic drug reactions, genetically determined toxicity, toxicity following sudden withdrawal of drugs	
7.	Drug interaction- beneficial interactions, adverse interactions, and pharmacokinetic drug interactions, Methods for detecting drug interactions, spontaneous case reports and record linkage studies	
8.	Adverse drug reaction reporting and management	
9.	Community Pharmacy Organization and structure of retail and wholesale drug store, types and design, Legal requirements for establishment and maintenance of a drug store	
10.	Dispensing of proprietary products, maintenance of records of retail and wholesale drug store	
UNIT-II (10 Hrs)		
Drug distribution system in a hospital		
11.	Dispensing of drugs to inpatients, types of drug distribution systems, charging policy and labelling	
12.	Dispensing of drugs to ambulatory patients, and Dispensing of controlled drugs. b) Hospital formulary Definition, contents of hospital formulary	
13.	Differentiation of hospital formulary and Drug list, preparation and revision, addition and deletion of drug from hospital formulary.	
14.	Therapeutic drug monitoring Need for Therapeutic Drug Monitoring, Factors to be considered during the Therapeutic Drug Monitoring	
15.	Indian scenario for Therapeutic Drug Monitoring. d) Medication adherence Causes of medication non-adherence	
16.	Pharmacist role in the medication adherence, and monitoring of patient medication adherence.	
17.	Patient medication history interview Need for the patient medication history interview,	
18.	medication interview forms.	
19.	Community pharmacy management Financial, materials,	
20.	staff, and infrastructure requirements.	
UNIT-III (10 Hrs)		
Pharmacy and therapeutic committee		
21.	Organization, functions, Policies of the pharmacy and therapeutic committee in including drugs into formulary,	
22.	inpatient and outpatient prescription, automatic stop order, and emergency drug list preparation.	
23.	information services Drug and Poison information centre, Sources of drug information	
24.	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	
25.	Education and training program in the hospital Role of pharmacist in the education and training program, Internal and external training program	
26.	Services to the nursing homes/clinics, Code of ethics for community pharmacy	
27.	Role of pharmacist in the interdepartmental communication and community health education	
28.	Prescribed medication order and communication skills Prescribed medication order- interpretation	
29.	legal requirements	
30.	Communication skills- communication with prescribers and patients	
UNIT-IV(8 Hrs)		
Preparation and implementation		
31.	Budget preparation and implementation	
32.	Clinical Pharmacy Introduction to Clinical Pharmacy, Concept of clinical pharmacy, functions and responsibilities of clinical pharmacist	
33.	Drug therapy monitoring - medication chart review, clinical review, pharmacist intervention	
34.	Drug therapy monitoring - medication chart review	
35.	clinical review, pharmacist intervention	
36.	Dosing pattern and drug therapy based on Pharmacokinetic & disease pattern	
37.	Over the counter (OTC) sales Introduction and sale of over the counter	
38.	Rational use of common over the counter medications.	
UNIT-V (7Hrs)		
Drug store management and inventory control		
39.	Organisation of drug store, types of materials stocked and storage conditions, Purchase	
40.	inventory control: principles, purchase procedure, purchase order, procurement and stocking, Economic order quantity,	
41.	Reorder quantity level, and Methods used for the analysis of the drug expenditure	
42.	Investigational use of drugs Description, principles involved, classification, control	
43.	Identification, role of hospital pharmacist, advisory committee.	
44.	Interpretation of Clinical Laboratory Tests Blood chemistry	
45.	Hematology, and urinalysis	