

GUJARAT TECHNOLOGICAL UNIVERSITY

B.Pharm SEMESTER: III

Subject Name: Dispensing Pharmacy I and Drug Store Management
Subject Code: 2230001

Teaching Scheme				Evaluation Scheme			
Theory	Tutorial	Practical	Total	Theory		Practical	
				External	Internal	External	Internal
3	0	3	6	80	20	80	20

Theory

Sr No	Course Contents	Total Hrs
1	Definition and scope.	1
2	The prescription: Handling of prescription, source of errors in prescription, care required in dispensing procedures including labelling at dispensed products.	2
3	Dispensing techniques: Compounding and dispensing procedures, packaging, storage and stability of medicines, labelling of dispensed product.	2
4	Pharmaceutical calculations: Posology: Introduction to imperial and metric system, avoirdupois and apothecaries system of weights and measures. Calculation of doses for infants, adults and elderly patients, enlarging and reducing recipes, percentage solutions, allegation, alcohol dilution, proof spirit, isotonic solutions, displacement value etc.	10
5	Principles involved and procedures adopted in dispensing of <ul style="list-style-type: none">Liquid Products – Oral and external solutions, Mixtures and Emulsions. Liniments, lotions etc.Solid Products – Powders, Lozenges, Pastilles, Tablet triturates etcOphthalmic- Eye drops, Eye lotions, Eye ointments, Contact lens solutions etc.Oral unit dosage forms, inhalations etc.	15
	Drug Store Management	
6	Drugs store Management and inventory control: <ul style="list-style-type: none">Organization of drugs store, Types of materials stocked, storage conditionspurchase and inventory control principles, purchase procedures, purchase order, procurement and stocking.Quality control of drugs in hospitals.	8
7	Retail and whole sale drugs store: Organization and structure of retail and whole sale drug store, types of drug stores and design, maintenance of drug store, dispensing of proprietary products, maintenance of records of retail and wholesale.	7

Practical – 22300P1

1.	Introduction to Latin to English translation, imperial, metric system, avoirdupois and apothecaries system of weights and measures.
2.	To prepare and dispense aromatic waters (e.g. chloroform and camphor), elixirs (e.g. Phenobarbitone elixirs BPC)
3.	To prepare and dispense gargles (e.g. Potassium chloride and phenol gargle) Mouth washes (e.g. Compound sodium chloride, mouth wash B.P.) Thorat paints (e.g. Mandel's paints) Douches (e.g. boric acid, potassium permanganate) Ear Drops (e.g. Sodium bicarbonate, Chloramphenicol)
4.	To prepare and dispense Mixtures Containing; diffusible, indiffusible solid with volatile oil, precipitate forming liquid, slightly soluble liquid and pediatric Kaolin Mixture as per BP'88)
5.	To prepare and dispense emulsion (liquid paraffin emulsion, emulsion with fixed oil, volatile oil, resinous liquids, soap emulsion, emulsion based enema, w/o type emulsion etc.)
6.	To prepare and dispense lotions (e.g. salicylic acid Calamine and precipitate Sulphur), liniments (e.g turpentine liniment, white liniment)
7.	To prepare and dispense Eutectic powder, aspirin powder, dispensing of potent drug in powders, Compound Rhubarb Powder, Compound Sodium Bicarbonate powder, Compound zinc Oxide-salicylic acid dusting powder, Zinc starch And talc Dusting Powder.
8.	To prepare and dispense Insufflations (Camphor –Menthol Insufflations etc) and Kaolin Poultices B.PC
9.	To prepare and dispense effervescent granules (Sodium phosphate effervescent granules, antacid effervescent granules etc.)
10.	To prepare and dispense tablet triturates and lozenges.

References Books:

1. Pharmaceutical Practice – by Diana M. Collett and Michale E. Aulton, ELBS Publishers.
2. Dispensing for pharmaceutical by Cooper and Gunn by S.J. Carter, CBS Publishers
3. Pharmaceutical Calculations by Mitchell J. Stocklosa and Howard C. Ansel, B. I. Waverly Pvt. Ltd., New Delhi.
4. Pharmaceutical Dosage forms and Drug delivery systems by Howard C. Ansel, Lippincott Williams and Wilkins.
5. Pharmaceutical Practice, Edited by A.J. Winfield and R.M.E. Richards.
6. Bentley's Textbook of pharmaceuticals, E A Rawlins.
7. Remington: The Science and Practice of Pharmacy, Latest Edition, by Mack Publishing Company.
8. Management by James A.F. Stoner.
9. Statistics for Management by Richard I. Levin.
10. Personnel Management by Arun Monappa.
11. Business Organisation and Office Management by Santhosh Bushan.