

LESSON PLAN

Name of Faculty: SAURABH MAAN
Discipline: D. Pharmacy
Semester: 2nd Year Diploma
Subject: Pharmaceutics-II
Lesson Plan Duration: 25 Weeks (From August 2017 to April 2018)

Work load (Lecture/Practical) per week (in hours): Lectures 03, Practical 04

WEEK	THEORY		PRACTICAL	
	LECTURE DAY	TOPIC	PRACTICAL DAY	TOPIC
1	1 st	Prescriptions – Reading and understanding of prescription, Latin terms commonly used, Modern methods of prescribing	1	Preparation of Mixtures containing soluble solids
	2 nd	Latin Terms & Modern methods of prescribing – Assignment		
	3 rd	Prescriptions – Adoption of metric system, Calculations involved in dispensing.		
2	4 th	Test	2	Preparation of Mixtures containing diffusible solids
	5 th	Study of incompatibilities in Prescriptions: Theoretical Consideration		
	6 th	Study of Physical incompatibilities		
3	7 th	Study of chemical and therapeutic incompatibilities.	3	Preparation of Mixtures containing indiffusible solids
	8 th	Study of Various incompatibilities in Prescription: Assignment		
	9 th	Posology—Dose and Dosage of drugs		
4	10 th	Factors influencing dose of drugs.	4	To study and rectify the Physical incompatibility occurring during the preparation of mixtures.
	11 th	Calculations of doses on the basis of age, sex and surface area. Veterinary doses.		

	12 th	Test		
5	13 th	Detailed study of Powders: Types of powders –Advantages and disadvantages of powders	5	Preparation of Eutectic (mixture), Dusting Powders
	14 th	Powders: Granules, Cachets and Tablet triturates.		
	15 th	Preparation of different types of powders encountered in Prescriptions.		
6	16 th	Weighing methods, possible errors in weighing	6	Preparation of Effervescent powders
	17 th	Geometric dilution and proper usage and care of dispensing balance.		
	18 th	Preparation of different types of powders encountered in Prescriptions: Assignment		
7	19 th	Monophasic liquids: Mixtures-Theoretical aspects	7	Preparation of Insufflations
	20 th	Vehicle and adjuvants used in preparation of Mixtures		
	21 st	Syrups- Theoretical aspects		
8	22 nd	Types of syrups and methods of preparation	8	Preparation of Dentifrices
	23 rd	Elixirs: Theoretical aspects		
	24 th	Methods of preparation of Elixirs		
9	25 th	Test	9	Preparation of Syrup
	26 th	Gargles: Theoretical aspects		
	27 th	Methods of preparation of gargles		
10	28 th	Mouth washes, Throat –paints: Theoretical aspects	10	Preparation of Mouthwashes, Throat paints
	29 th	Methods of preparation of Mouth washes, Throat –paints		
	30 th	Douches: Theoretical aspects		
11	31 st	Ear Drops, Nasal drops & Sprays Liniments, Lotions: Theoretical aspects	11	Preparation of Hair care (Shampoo and Depilatories)

	32 nd	Methods of preparation of Ear Drops, Nasal drops & Sprays Liniments, Lotions		products
	33 rd	Monophasic liquids: Assignment		
12	34 th	Biphasic Liquid Dosage Forms: Suspension- Theoretical aspects	12	Preparation of Eye drops, Eye lotions
	35 th	Suspensions containing diffusible solids and liquids, flocculated, non-flocculated suspension system.		
	36 th	Study of the adjuvants & preparation of suspension		
13	37 th	Suspensions of precipitate forming liquids like, tinctures, their preparations and stability	13	Preparation of Facial cosmetics
	38 th	Test		
	39 th	Emulsions –Types of emulsions: Theoretical aspects		
14	40 th	Identification of emulsion system, formulation of emulsions.	14	Preparation of Ear drops
	41 st	Formulation of emulsions: Assignment		
	42 nd	Selection of emulsifying agents. Instabilities in emulsions. Preservation of emulsions.		
15	43 th	Test	15	Preparation of Inhalation, Douches
	44 th	Semi –Solid Dosage Forms: Theoretical aspects		
	45 th	Ointments–Types of ointments		
16	46 th	Classification and selection of dermatological vehicles	16	Preparation of Enemas
	47 th	Ointments–Types of ointments; Types of ointment bases: Assignment		
	48 th	Preparation and stability of ointments by the (i) Trituration (ii) Fusion		
17	49 th	Preparation and stability of ointments by the following processes (iii) Chemical reaction (iv) Emulsification	17	Preparation of lotions

	50 th	Test		
	51 st	Pastes--- Difference between ointments and pastes		
18	52 nd	Bases of pastes. Preparation of pastes and their preservation.	18	Preparation of Liniments
	53 rd	Jellies –An introduction to the types of jellies and their preparation.		
	54 th	An elementary study of poultice		
19	55 th	Suppositories and pessaries: Theoretical aspects	19	Preparation of Solutions
	56 th	Types of suppositories & suppository bases		
	57 th	Preparation and packing of suppositories		
20	58 th	Suppositories, suppositories bases and the method of preparation: Assignment	20	Preparation of Suspension
	59 th	Use of suppositories for drug absorption.		
	60 th	Test		
21	61 st	Dental and Cosmetic Preparations: Introduction to Dentifrices	21	Preparation of Emulsions
	62 nd	Facial cosmetics, Deodorants, Antiperspirants		
	63 rd	Shampoos, Hair dressing and Hair removers.		
22	64 th	Test	22	Preparation of Ointment
	65 th	Sterile Dosage Forms: Parenteral dosage forms- Theoretical aspects		
	66 th	Types of parenteral formulations, vehicles, and adjuvants, processing		
23	67 th	Personnel, facilities and Quality control.	23	Preparation of Pastes, Jellies
	68 th	Preparation of Intravenous fluids and admixtures.		

	69 th	Total parenteral nutrition, Dialysis fluids.		
24	70 th	Parenteral formulations, facilities and Quality control: Assignment	24	Preparation of Suppositories
	71 st	Sterility testing, Particulate matter monitoring –Faulty seal packaging.		
	72 nd	Ophthalmic Products: Theoretical aspects		
25	73 rd	characteristics of different ophthalmic preparations	25	Preparation of Pessary, Poultice
	74 th	Formulation additives, special precautions in handling and storage of ophthalmic products.		
	75 th	Ophthalmic preparations, special precautions in handling and storage of ophthalmic products: Assignment		