

S.D.College of Pharmacy (245)

Janaula, Pataudi (Gurugram)

Lesson Plan

Name of the Faculty : Anjali
 Discipline : Pharmacy
 Year : 1st year
 Subject : Pharmaceutics-I
 Lesson plan duration : weeks (6th august .2018 to April. 2018)
 Work load : Theory -Lecture 03hours / week, Practical- 04 hours /week

Week	Theory			Practical		
	Lecture Day	Topic (including assignment / test)	Covered Date	Practical Day	Topic	Covered Date
1.	1	Introduction of different dosage forms. Classification of dosage form			Introduction to Aromatic water	
	2	Introduction of different dosage forms..(Solid dosage form) tablet, capsule Pills sachet				
	3	Introduction of different dosage forms. Granules, Dusting powder				
2.		Introduction of different dosage forms.. Dentifrices Snuff , Insufflations,			Prepare and supply 50ml Chloroform Water I.P 1966	
		Introduction of different dosage forms.(Liquid dosage form) ; Syrup ,linctuses, elixir				
		Introduction of different dosage forms. Lotion, liniments, Ear Drop, Nasal Drop, Eye Drop ,				
3.		Introduction of different dosage forms. Suspension			Prepare and supply 50ml Camphor Water I.P 1966	
		Introduction of different dosage forms. Emulsion				
		Introduction of different dosage forms. (Semisolid Dosage form) Ointment, Paste				
4.		Introduction of different dosage forms. Jelly pesseries, poultice			File check & viva	
		Introduction of different dosage forms. Suppositories				

		Introduction of different dosage forms. Suppositories				
5.		New Drug Delivery System			Prepare and supply 50ml Peppermint Water Concentrated B.P 1968	
		Test				
		Introduction to Pharmacopoeia				
6.		Metrology; System of weights and measures. Calculations including conversion from one to another system			Prepare and supply 50ml Dill Water Concentrated I.P 1966	
		Metrology: Percentage Calculation, Alligation Method				
		Packaging of pharmaceuticals- Desirable features of a container and types of containers.				
7.		Packaging of pharmaceuticals- Study of glass & plastics as materials for containers			Introduction to solution	
		Packaging of pharmaceuticals- Study of rubber as a material for closure-their merits and demerits				
		Packaging of pharmaceuticals- Aerosol Packing				
8.		Test			Prepare and supply 500ml Sodium Chloride Solution B.P.C 1968	
		Size reduction, objectives, and factors affecting size reduction,				
		Size reduction, study of Hammer mill, ball mill,				
9.		1st Sessional				
10		Size reduction, study of Fluid energy mill and Disintegrator			Prepare and supply 50ml Aqueous Iodine solution I.P1966	
		Size separation- size separation by sifting.				
		Size separation- Official standards for powders.				
11		Size separation- Sedimentation methods of size separation. Construction and working of Cyclone separator.			Introduction of Sprits	
		Test				
		Mixing and Homogenization- Liquid mixing and powder mixing,				
12		Mixing and Homogenization- Mixing of semisolids.			Prepare and supply 50ml Chloroform Sprit I.P 1966	

		Biphasic Liquid Dosage Forms: Study of silverson Mixer-Homogenizer,			
		Mixing and Homogenization- planetary Mixer; Agitated powder mixer;			
13		Mixing and Homogenization- Triple Roller Mill; Propeller Mixer			Prepare and supply 50ml Peppermint Sprit B.P.C 1968
		Mixing and Homogenization- colloid Mill and Hand Homogeniser			
		Mixing and Homogenization- Double cone mixer.			
14		.test			File check and viva
		Clarification and Filtration- Theory of filtration, Filter media;			
		Clarification and Filtration- Filter aids and selection of filters.			
15		Clarification and Filtration- Study of Filter press			Introduction of Tinctures
		Clarification and Filtration- Study of sintered filters,.			
		Clarification and Filtration- Study of Filter candles,.			
16		Clarification and Filtration- Study of, Metafilter.			Prepare and supply Orange tincture I.P 1966 (25g)
		Test			
		Extraction and Galenicals- Study of percolation			
17		Extraction and Galenicals- maceration their modification,			Prepare and supply 25 ml Strong Ginger Tincture I.P1966
		Extraction and Galenicals- maceration their modification,			
		Extraction and Galenicals- maceration their modification,			
18		Extraction and Galenicals- continuous hot extraction-			Prepare and supply 25 ml Compound Cardamom Tincture I.P 1966
		Extraction and Galenicals- Introduction to Ayurvedic dosage forms.			
		.test			
19		Distillation- Simple distillation and Fractional distillation,			File check and viva
		Distillation: steam distillation and vacuum distillation			
		Distillation: Study of vacuum still,			

20		2nd Sessional				
21		Winter Vacation				
22		Winter Vacation				
23		Distillation: preparation of purified water I.P. and water for Injection I.P.			Introduction of Extracts	
		Distillation: construction and working of the still				
		Test				
24		Introduction to drying process: Study of Tray Dryers			Prepare and supply Liquorice liquid extract I.P 1966	
		Introduction to drying process: Fluidized Bed Dryer,				
		Introduction to drying process: Vacuum Dryer and Freeze Dryer.				
25		Test			Introduction of Creams	
		Sterilization: Concept of sterilization and its differences from disinfection-				
		Sterilization: Thermal resistance of microorganisms				
26		Sterilization: Detailed study of moist heat Sterilization			Prepare and supply 25 gm Cetrimide Cream B.P.C 1968	
		Sterilization: Detailed study of Dry heat sterilization,				
		Sterilization: Detailed study of Sterilization by radiation				
27		Sterilization: Sterilization by filtration and gaseous sterilization.			Introduction to cosmetic preparation	
		Test				
		Aseptic techniques: Applications of sterilization process in hospitals particularly with reference to surgical dressings and intravenous fluids.				
28		Aseptic techniques: Precautions for safe and effective handling of sterilization equipment.			Preparation of Tooth powder	
		Processing of Tablets: Definition; different type of compressed tablets and their properties.				
		Processing of Tablets: Processes involved in the production of tablets;				

29	Processing of Tablets: Tablets excipients			Preparation of Granules	
	Processing of Tablets: Defects in tablets;				
	Processing of Tablets: Evaluation of Tablets;				
30	Processing of Tablets: Tablet coating-			Evaluation Test for tab	
	Processing of Tablets: Tablet coating-				
	Processing of Capsules: Hard and soft gelatin capsules; different sizes of capsules				
31	Processing of Capsules: filling of capsules;handling and storage of capsules			Evaluation Test for tab	
	Processing of Capsules: Special application of capsule				
	Study of immunological products like sera & their preparations.				
32	3rd Sessional				
33	Study of immunological products like vaccines, & their preparations.				
	Study of immunological products like toxoids & their preparations.				
	Revision				
34	Revision				
	Revision				
	Test				