

LESSON PLAN

Name of Faculty:	Mr. Pankaj Sharma			
Discipline:	DIPLOMA IN PHARMACY			
Semester/Year:	1st Year			
Subject/Code:	PHARMACEUTICS-I (2111)			
Lesson Plan Duration:	39 Weeks (August 2018 to April-2019)			
Work Load (Lecture/Practical) per week (in Hours):				
WEEK	THEORY		PRACTICAL	
	Lecture Day	Topic (Including assignment /Test)	Practical Day	
1st	1st	Dosage form	1st	Preparation of Chloroform water
	2nd	Introduction to Dosage form		
	3rd	Classification of dosage form		
2nd	1st	Relative applications of dosage form	2nd	Preparation of Camphor water
	2nd	Familiarisation with new drug delivery system		
	3rd	Revision		
3rd	1st	Pharmacopoeia introduction	3rd	Preparation of peppermint water
	2nd	Special reference to Indian Pharmacopoeia		
	3rd	Content of Pharmacopoeia		
4th	1st	System of weights and measurement	4th	Preparation of cresol soap solution
	2nd	Calculations including conversion		
	3rd	Percentage calculation		
5th	1st	Aligation Method	5th	Preparation of aqueous iodine solution
	2nd	Isotonic Solutions		
	3rd	Packaging of Pharmaceuticals		
6th	1st	Desirable features of Containers	6th	Preparation of weak iodine solution
	2nd	Types of containers		
	3rd	Study of Glass and Plastic containers		
7th	1st	Materials for containers	7th	Preparation of compound sodium chloride solution
	2nd	Material for closers		
	3rd	Merits and demerits of closers		
8th	1st	Objectives of size reduction	8th	To prepare peppermint spirit.
	2nd	Methods of size reduction		
	3rd	Study of Hammer mill		
9th	1st	Fluid energy mill	9th	Revision
	2nd	Disintegrator		
	3rd	Ball Mill		
10th	1st	Revision	10th	Study of size reduction
	2nd	Revision		
	3rd	Revision		

11th		1st sessional exam	11th	1st sessional exam
12th	1st	Size separation methods	12th	To prepare and supply catechu tincture I.P.
	2nd	Official standards for powders		
	3rd	Sedimentaion method of size sepration		
13th	1st	Liquid mixing, powder mixing	13th	To prepare and supply compound benzion tincture
	2nd	silverson mixer and planetary mixer		
	3rd	Mixing of semi solids		
14th	1st	colloidal mill and homogeniser	14th	To prepare and supply vasaka liquid extract
	2nd	double cone mixer		
	3rd	Revision		
15th	1st	filtration factor affecting filtration	15th	Revision
	2nd	Filter midia		
	3rd	Filter aids		
16th	1st	Filtration equipment	16th	To prepare and supply vanishing cream I.P.
	2nd	filter press		
	3rd	Cintered glass filer		
17th	1st	Study of percolation	17th	Revision
	2nd	Meceration		
	3rd	Continious hot extraction		
18th	1st	Introduction to ayurvedic dosage form	18th	To Prepare cold cream
	2nd	Tinctures and paks		
	3rd	evaporation and factors affecting evaporation		
19th	1st	Evaporating still	19th	Revision
	2nd	Evaporating Pan		
	3rd	Revision		
20th	1st	Simple distillation	20th	To prepare Calamine lotion I.P.
	2nd	Fractional Distillation		
	3rd	Vacum Still		
21st	1st	Water for injection IP	21st	Revision
	2nd	Constuction and working of Distillation still		
	3rd	Revision		
22nd	1st	steam distillation, destructive distillation	22nd	To prepare clear shampoo I.P.
	2nd	vacum distillation		
	3rd	Revision		
23rd		Winter vacations	23rd	Winter vacations

24th	1st	Evaporators	24th	To prepare tooth powder
	2nd	Pan and evaporating still		
	3rd	Revision		
25th		2nd sessional exam	25th	2nd sessional exam
26th	1st	Study of tray dryer	26th	To prepare 5 capsules of liquid parafin I.P.
	2nd	Fluidised bed dryer		
	3rd	Vacum Dryer		
27th	1st	sterilization and its types	27th	To prepare 5 capsules of Magnisium oxide I.P
	2nd	Concept of sterilisation		
	3rd	detail study of moist heat sterilisation		
28th	1st	Dry heat sterilisation	28th	Revision
	2nd	Sterilisation by filtration		
	3rd	Gaseous Sterilisation		
29th	1st	Hot air oven	29th	To prepare 10 capsules of Sodium bicarbonate
	2nd	Revision		
	3rd	Aseptic techniques		
30th	1st	Applcation ofsterlisation	30th	To prepare 20 tablets of paracetamol I.P
	2nd	Sterlisation used for surgical dressings		
	3rd	Sterlisation used for IV fluids		
31st	1st	Safe handling of sterilisation equipment	31st	Evaluation of Tablet as per I.P
	2nd	Laminar Air flow		
	3rd	UV Lamp		
32nd	1st	Revision	32nd	To prepare Boric Acid I.P
	2nd	Tablets		
	3rd	Types of tables		
33rd	1st	Production of tablet	33rd	Preparation of water for injection
	2nd	Evaluation of Tablet		
	3rd	Disintegration		
34th	1st	Sugar Coating	34th	Preparation of 5 ampoule of sodium chloride
	2nd	Film coating		
	3rd	Enteric coating		
35th	1st	Capsules hard and soft	35th	Preparation of dextrose I.P ampoule
	2nd	Vaccines and Toxoids		
	3rd	Revision		
36th		3rd sessional exam	36th	3rd sessional exam

37th	1st	Revision	37th	Revision
	2nd	Revision		
	3rd	Revision		
38th	1st	Revision	38th	Revision
	2nd	Revision		
	3rd	Revision		
39th	1st	Revision	39th	Revision