Performa: Hi	ndu College of I	Pharmacy			
		Lesson Plan			
Name of the faculty		Naveen			
Discipline		Pharmacy			
Semester		1 st Year			
Subject		Pharmaceutics-1			
Lesson plan Du	ration	25 weeks (JULY 16, 2018 to April 06, 2019)			
Work Load/we	ek(In hour)	Lecture- 03; Practical- 09			
Week		Theory	Practical		
	Lecture Day	Topic	Practical Day	Topic	
1 st (JULY3 rd	1 st	Introduction of different dosage	1st (Batch A)	Preparation of Aromatic water	
week)		forms.			
•	2 nd	Introduction of different dosage	2 nd (Batch B)	do	
		forms.	,		
	3 rd	Introduction of different	3 rd (Batch C)	do	
		dosage forms.	'		
2 nd (JULY4 th	1 st	Their classification with	1 st (Batch A)	Preparation of Aromatic water	
week)		examples-their relative	, ,	P	
•		applications			
	2 nd	Description of different	2 nd (Batch B)	do	
		dosage forms	,		
	3 rd	Description of different	3 rd (Batch C)	do	
		dosage form	(2000)	40	
3 rd (JULY	1 st	Tutorial/Test	1 st (Batch A)	Viva-voca	
5 TH /AUG.1 ST	2 nd	Familiarisation with new drug	2 nd (Batch B)	do	
week)	_	delivery systems	2 (Batter B)	uo	
,	3 rd	Familiarisation with new drug	3 rd (Batch C)	do	
		delivery systems.	S (Batelle)		
4 th (AUG. 2 nd	1 st	Tutorial/Test	1st (Batch A)	Preparation of Solutions	
week)	2 nd	Introduction to	2 nd (Batch B)	do	
Weeky		Pharmacopoeias	2 (Batch b)	do	
	3 rd	Indian Pharmacopoeia.	3 rd (Batch C)	do	
	1 st	Tutorial/Test	1 st (Batch A)		
	2 nd		· · · · · · · · · · · · · · · · · · ·	Preparation of Solutions	
	2	Metrology Systems of weights and measures.	2 nd (Batch B)	do	
5 th (AUG. 3 rd		Calculations including			
week)		conversion from one to another system			
weekj	3 rd	Percentage calculations and	3 rd (Batch C)	do	
		adjustments of products. Use	(2000)	u u	
		of alligation method in			
		calculations			
6 th (AUG.4 th week)	1 st	Isotonic solutions.	1 st (Batch A)	Viva-voca	
	_	isotome solutions.	_ (2000.7.7)	VIVA VOCA	
	2 nd	Test of Alligation mathed and	2 nd (Batch B)	do	
	_	Test of Alligation method and isotonic solutions	2 (Dattil B)	uU	
	3 rd	Packing of Pharmaceuticals	ard (Datab C)	J.	
	3	Desirable features of a	3 rd (Batch C)	do	
		container			

		types of containers. Study of glass		
7 th (AUG.5 TH week)	1 st	Plastics as materials for containers	1 st (Batch A)	Preparation of Spirits
	2 nd	Rubber as material for closures-their merits and demerits	2 nd (Batch B)	do
	3 rd	Introduction to aerosol packaging	3 rd (Batch C)	do
8 th (SEPT.2 ND week)	1 st	Size reduction Objectives, and factors affecting size reduction	1 st (Batch A)	Viva-voca
	2 nd	Methods of size reduction, study of Hammer mill	2 nd (Batch B)	do
	3 rd	Ball mill, Fluid Energy Mill and Disintegrator	3 rd (Batch C)	do
9 th (SEPT.3 RD	1 st	Unit test	1st (Batch A)	Preparation of Tinctures
week)	2 nd	Size separation Size separation by sifting. Official Standard for powders	2 nd (Batch B)	do
	3 rd	Sedimentation methods of size separation	3 rd (Batch C)	do
10 th (SEPT.4 TH week)	1 st	Construction and working of cyclone separator	1 st (Batch A)	Preparation of Tinctures
	2 nd	Unit test	2 nd (Batch B)	do
	3 rd	Mixing of semisolids with mills Study of Silverson Mixer, Homogeniser, Planetary Mixer, Agitated powder mixer	3 rd (Batch C)	do
11 th (SEPT.5 TH week)	1 st	Study of Silverson Mixer, Homogeniser, Planetary Mixer, Agitated powder mixer	1 st (Batch A)	Preparation of Tinctures
	2 nd	Clarification and Filtration- Theory of filtration,	2 nd (Batch B)	do
	3 rd	Filter aids and selection of filters. Study of the following filtration equipments Filter Press Sintered Filters	3 rd (Batch C)	do
12 th (OCT.1 ST	1 st	Filter Candles, Meta filter	1st (Batch A)	Viva-voca
week)	2 nd	Study of percolation, continuous hot extraction, Maceration and their modification	2 nd (Batch B)	do
	3 rd	Applications in the preparation of tinctures and extracts	3 rd (Batch C)	do
13 th (OCT.2 ND	1 st	Unit test	1 st (Batch A)	Preparation of Extracts

week)						
Weeky	2 nd Introduction to Ayurvedic		2 nd (Batch B)	do		
		dosage forms.				
	3 rd	Heat processes: Evaporation	3 rd (Batch C)	do		
		definition factors affecting				
		evaporation				
14 th (OCT.4 TH						
/5 TH week)						
15 th (NOV.3 rd	1st Study of evaporating still and		1 st (Batch A)	Preparation of Creams		
week)		Evaporating Pan				
	2 nd	Unit test	2 nd (Batch B)	do		
	3 rd	Distillation : Simple	3 rd (Batch C)	do		
	<u> </u>	distillation				
16 th (NOV.4 TH week)	1 st	Fractional distillation	1 st (Batch A)	Viva-voca		
	2 nd	Steam distillation, Vacuum	2 nd (Batch B)	do		
		distillation				
	3 rd	Preparation of Purified Water	3 rd (Batch C)	do		
		I.P. and water for injection				
		I.P. Construction and working				
4 Cth/DEC 2ND	4 ct	of the still used for the same				
16 th (DEC.2 ND	1st Study of vocuum still			Preparation of Cosmetic		
week)	2 nd	Study of vacuum still Unit test	2 nd (Batch B)	preparations do		
	3 rd		3 rd (Batch C)	do		
	3	Introduction to drying processes Study of Tray	3 (Batch C)	00		
		Dryers: Fluidized Bed Dryer				
17 th (DEC.3 RD			1st (Batch A)	Preparation of Cosmetic		
week)		Dryer and Freeze Dryer		preparations		
•		Dryer and Preeze Bryer		propulations		
	2 nd	Unit Test	2 nd (Batch B)	do		
	3 rd	Sterilization Concept of	3 rd (Batch C)	do		
		sterilization and its				
		differences from disinfection-				
		Thermal resistance of				
	microorganisms					
18 TH (DEC.3 RD /4 TH WEEK)	2 ND SESSI	ONAL EXAMINATION.				
19 th (JAN.2ND	1 st	Classification (Methods),	1 st (Batch A)	Viva-voca		
week)		Moist heat sterilization, Dry				
		heat sterilization				
	2 nd	Sterilization by radiation and	2 nd (Batch B)	do		
	ard	filtration	ard (paralla)	1		
20th/1221 28D	3 rd	Gaseous sterilization	3 rd (Batch C)	do		
20 th (JAN.3 RD	1"	Aseptic techniques.	1 st (Batch A)	Capsules		
week)		Application of sterilization				
		processes in hospitals				
		particularly with reference to				

		surgical dressings and				
		intravenous fluids				
	2 nd	Precautions for safe and	2 nd (Batch B)	do		
	2		2 (Battii B)	<u>u</u> O		
		effective handling of				
	3 rd	sterilization equipment		do		
21 th (JAN.4 TH	1 st	Unit test	3 rd (Batch C)	do		
/5 TH week)	1"	Definition; Different types of		Tablets		
/5 week)	2 nd	compressed tablets	and (Databan)	1		
	2	Different types of	2 nd (Batch B)	do		
		compressed tablets and their				
	3 rd	properties Processes involved in the	ard (Databack	1		
	3"	production of tablets, Tablets excipients	3 rd (Batch C)	do		
22st(FEB.2ND	1 st	Processes involved in the	1st (Batch A)	Viva-voca		
/3 RD week)	_	production of tablets, Tablets excipients	2 (5000.71)	viva voca		
	2 nd	Defects in tablets	2 nd (Batch B)	do		
	3 rd	Evaluation of Tablets;	3 rd (Batch C)	do		
		Physical Standards including				
		Disintegration and				
		Dissolution				
23 RD (FEB.4 TH	1 st	Evaluation of Tablets;	1st (Batch A)	Ophthalmic preparations		
week)		Physical Standards including				
		Disintegration and				
		Dissolution				
	2 nd	Sugar coating and Enteric	2 nd (Batch B)	do		
		coating				
	3 rd	Microencapsulation	3 rd (Batch C)	do		
24 TH (MAR.2 ND	1 st	Processing of Capsules, Hard	1 st (Batch A)	Viva-voca		
week)		and soft gelatin capsules,				
		different sizes capsules				
	2 nd	filling of capsules, handling	2 nd (Batch B)	do		
		and storage of capsules				
	3 rd	Special applications of		do		
TU (PD	capsules.					
25 TH (MAR.3 RD /4 TH WEEK)	3 ^{KD} SESSIC	DNAL EXAMINATION.				
26 th (MAR.5 TH	1 st	Study of immunological	1st (Batch A)	Preparations involving aseptic		
week)		products, classifications	,	techniques		
weeky	2 nd	Immunity, types of immunity	2 nd (Batch B)	do		
		and factors responsible for	, ,			
		immunity				
	3 rd	Unit test	3 rd (Batch C)	do		
27 th (APR.1 ST	1 st	Vaccines, toxoids	1 st (Batch A)	Viva-voca		
week)	2 nd	Serum- Rabies, antibacterial	2 nd (Batch B)	do		
-		serum				
	3 rd	Immune blood derivatives	3 rd (Batch C)	do		
	1	After onwards revised the queries r				