Lesson Plan

DIPLOMA IN PHARMACY SUBJECT

: FIRST YEAR

:PHARMACEUTICS

TOTAL HOURS ASSIGNED

:75 HOURS (82 classes)

SESSION

: 2022-23

SUBJECT TEACHER

: MADHUSMITA SWAIN

SI. no	Title of Unit / Chapter	Theory Day	Date	PORTION TO BE COVERED	Actually covered	Remark
1	Packaging material	1.		Types Packaging		
		2.		Selection criteria		
		3.		Advantages and dis advantages		
		A Comment		of Glass		
		4.		Plastic		1
_		5.		Metal and rubber as packaging material.		
2	Pharmaceutical Aids	6.		Organolepticscolouring agents		
		7.		flavouring ,and sweeteningagents		
		8		Preservatives : Definition ,types with examples and uses.		
3	Unit Operations	9		Size reduction : Definition , objectives/ applications, principle , construction and working of Hammer mill ,Ball mill		
		10		Size separation : Definition , objectives/ applications, Sieves and standards of sieves ,Classification of powders according to IP.		
		11		principle ,construction and working of cyclone separator		1
		12		Mixing: Definition, objectives/ applications, principle ,construction and working of Double cone blender, Turbine mixer		
		13		Triple roller mill, silverson mixer homogenizer.		
		14		Drying :Working of fluidized bed dryer		
		15		Process of freeze drying		
		16		Extraction : Definition , classification	00	
		17	-		OII	
	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	18	-	methods, applications		
4	TABLETS			-do-		
4	IADLEIS	19		Definition, Advantages and		

	20	Coated tablets , Defects in coating	
	21	Uncoated tablets and Granulation methods	
	22	Various Modified Tablets : Sustained release tablets	
*	23	Extended release tablets	
	24	Fast dissolving Tablets	
	25	Double layered tablets	
	26	Quality control Tests of Tablets	
	27	Definition ,Advantages	
		,Disadvantages ,Classification of	
		Capsules	
Capsules	28	Hard gelatin Capsules	
	29	-do -	
	30	Soft gelatin Capsules	
Liquid oral	31	Solution	
preparations	32	Syrup	
	33	Elixir	
	34	Emulsion	
	35	Suspension	7
	36	Dry powder for reconstitution	,
TOPICAL PREPARATION	37	Ointments	
	38	-do-	
	39	Cream	
	40	Pastes	
	41	Gels	
	42	Lotion and liniments	
	43	-do-	
	44	Suppositories	
	45	Pessaries	
	46	-do-	
	47	Nasal preparation	
	48	Ear preparation	- 11010
Powders and granules	49	Insufflations	
	50	Dusting powder	
	51	Effervescent powder and granules	
Sterile Formulation	52	Injectables	
. 5111131411511	53	-do-	
	54	Eye drops	
	55	-Do-	
	56	Eye ointments	
	57	-Do-	
Immunological products	58	Sera	
P. 0	59	-Do-	
	60	Vaccine	



		61	-Do-	
		62	Toxoid	
		63	-Do-	
		64	-Do-	
+		65		
,la an P m p C	asic structure ayout, section, nd activities of harmaceutical nanufacturing lants Quality Control and Quality assurance		Basic structure layout, section,	
		66	activities of Pharmaceutical manufacturing plants	
		67	Quality Control	
		68	-Do-	
		69	Quality assurance	
		70	-Do-	
		71	Current good manufacturing practice	
		72	Introduction to concept of calibration and validation	
6.	Novel drug delivery system	73	Introduction ,Classification	
		74	Classification with examples	
		75	Advantages	
		76	Challenges	
7	History of pharmacy	77	History of profession of pharmacy in India in relation to pharmacy Education, Industry, pharmacy practice and various professional association.	
		78	Pharmacy as a career	
		79.	Pharmacopoeia : Introduction to IP,BP,USP,NF,andextrapharma copoeia	
		80.	Salient Indian Pharmacopoiea features of.	
		81.	-do-	
		82.	Revision	

Prepared by : Madhusmita Swain
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