GAUTAM COLLEGE OF PHARMACY

DISTT.HAMIRPUR 177001 (H.P)

LESSON PLAN

Course: D. Pharmacy 1st Year Session-2024-2025 Subject Name: Pharmaceutics Subject Code: ER20-11T

Total teaching hours allocated by PCI= 75 hrs

Name of faculty: Priyanka Sharma

Duration of topic: 1 hr

Chapter No.	Topic No	Title of Topic	Learning outcome	Scheduled Date	Pedagogy	Assignment Detail	Remarks
1	1.	History of the profession of pharmacy in India in relation to pharmacy education,	After completion of the topic's the student will understand about History of the	4/9/24	Hand written Notes	History of pharmacopeia	
		Tutorial-1	profession of	5/9/24		-	
	2.	Industry pharmacy practice, and various professional associations	pharmacy in India and its official's books in various countries	7/9/24			
	3.	Pharmacy as a career		7/9/24			
	4.	Introduction to IP		11/9/24			
		Tutorial-2		12/9/24		-	
	5.	Introduction BP, Introduction USP		11/9/24		-	
	6.	NF and Extra Pharmacopoeia.		18/9/24			
		Tutorial-3		19/9/24			
	7.	Salient features of Indian Pharmacopoeia		20/9/24			
2	8.	Packaging materials, and types	After completion of the topic's the student will understand about	21/9/24	PPT/PDF& Notesthroug h online mode	Overview of various machines/equip ments	
	9.	Packaging materials, selection criteria,	and types, Advantages and	21/9/24		/instruments involved in the formulation and quality control of various dosage forms	
	10.	Advantages and disadvantages of glass,		25/9/24			
		Tutorial-4		26/9/24		1	
	11.	Advantages and disadvantages of Plastic, metal,		28/9/24			
	12.	Advantages and disadvantages rubber as packaging materials		28/9/24			

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3	13.	Pharmaceutical aids: Organoleptic colouring, agents	After completion of the topic's the student will understand about pharmaceutical aids, flavouring, and	03/10/24			
		TD 4 117	sweetening agent etc	0.4/1.0/2.4			
		Tutorial-5		04/10/24			
	14.	Preservatives: definition, types with examples and uses		05/10/24			
	1.5	D		0.5 /1.0 /0.4	TT 1 100	T 7 ·	
	15.	Preservatives: definition, types with examples and uses	•	05/10/24	Hand written Notes	Various systems of measures commonly used in prescribing, compounding and dispensing practices	
4	16.	Unit operations: definition, objectives/applic ations,	After completion of the topic's the student will understand about	09/10/24			
		Tutorial-6	Unit operation and various types of	10/10/24			
	17.	Size reduction Principles, construction, and workings of: Size reduction: hammer mill	mills used in industries.	16/10/24			
	18.	Definition, objectives/ applications, principles, construction and workings of ball mill		19/10/24	PPT/PDF& Notes through on line mode	Explain the advantages, disadvantages, and quality	
	19.	Size separation: classification of powders according to IP, Cyclone separators,		19/10/24		control tests of different dosage forms	
	20.	Sieves and Standards of sieves, Mixing: Double cone blender,		19/10/24			
	21.	Turbine mixer, triple roller Mill		23/10/24			
		Tutorial-7		24/10/24	_		
	22.	Silverson mixer homogenizer		26/10/24			
	23.	Filtration: Theory of filtration, membrane filter and sintered glass filter		26/10/24			

24.			6/11/24			
	fluidized bed dryer and					
	process of freeze drying	_	5/11/04		_	
	Tutorial-8		7/11/24			
25.	Extraction: Definition,	_	20/11/24		_	
	Classification, method,					
	and applications	_	01/11/04			
26	Tutorial-9	1.0	21/11/24	TT 1 ***	_	
26.	Tablets	After completion of the topic's the student	23/11/24	Hand written Notes		
		will understand about		Notes		
27.	coated and	various techniques	23/11/24			
	uncoated	used in productions of				
		various dosage forms				
28.	Various modified tablets	of drugs like tablets,	27/11/24			
	sustained release	capsule, creams, paste,				
	Tutorial 10	gels etc.	20/11/24		_	
	Tutorial-10		28/11/24			
20	1'C 14 11 4	_	20/11/24			
29.	Various modified tablets extended release		30/11/24			
		_				
30.	Various modified tablets extended release		30/11/24			
31.	Fast dissolving,		11/12/24			
	Tutorial-11	-	12/12/24			
22	Canada handada	_	18/12/24			
32.	Capsules-hard gelatin capsules		18/12/24			
	capsules					
	Tutorial-12	-	19/12/24			
22		_	10/10/05			
33.	*		19/12/25			
	gelatin capsules					
34	Capsules-soft gelatin	-	21/12/24			
3 1.	capsule		21/12/21			
25	0 12		21/12/24			
35.	Capsules-soft gelatin capsule		21/12/24			
	Tutorial-13		26/12/24		Market	
			_0,12,21		preparations	
	Tutorial-14	1	16/1/25		(including Fixed	
			10///2		Dose	
36.			18/1/25		Combinations)	
	tablets sustained				of each type of	
27	release	-	22/1/25		dosage forms,	
37.	Extended-release,		22/1/25		their generic	
20	Tutorial-15	_	23/1/25		_	
38.	Liquid oral preparations - solution		27/1/25			
	- solution					
	<u> </u>	<u> </u>		I	<u> </u>	<u> </u>
30	syrup		28/1/25		name r	ninimum

39.	syrup	28/1/25		name, minimum	
				three brand	

				names and label contents of the	
	Tutorial-16	30/1/25		dosage forms	
40.	elixir	3/2/25			
41.	emulsion	4/2/25			
42.	suspension	5/2/25			
	Tutorial-17	6/2/25			
43.	dry powder for reconstitution	10/2/25	Hand written Notes		
44.	Topical preparations- ointments	11/2/25			
	Tutorial-18	13/2/25			
45.	Creams, Pastes,	15/2/25	PPT/PDF& Notes through on line mode		
46.	Gels, Lotions,	17/2/25	Time mode		
47.	Liniments	18/2/25			
48.	Tutorial-19 Pessaries	20/2/25 22/2/25			
40.	i essaires	2212123			
49.	Suppositories,	24/2/25			
50.	Nasal preparations	25/2/25	Hand written Notes		
	Tutorial-20	27/2/25			
51.	Ear preparations	1/3/25			
52.	Powders granules, Insufflations	3/3/25			
53.	dusting powders,	4/3/25			
54.	Effervescent powders, and effervescent granules	15/3/25			
55.	Sterile formulations	17/3/25			
56.	Injectables	18/3/25			

		Tutorial-21]	20/3/25			
	57.	Eye drops		22/3/25			
	58.	Eve duene	-	24/3/25			
	36.	Eye drops		24/3/23			
	59.	Eye-ointments		25/3/25			
		Tutorial-22		27/3/25			
	60.	Eye-ointments	_	29/3/25			
				23/3/23			
	61.	Eye-ointments	-	1/4/25			
	01.	Eye-omunents		1/4/23			
		T. 4 . 1.22	_	2/4/25			
	62.	Tutorial-23 Immunological	-	3/4/25 5/4/25			
	02.	products:		3/4/23			
		preduction					
1							
	63.	Sera manufacturing		7/4/25			
		methods.					
	64.	Vaccines	-	/4/25			
		manufacturing methods.					
		Tutorial-24	-	10/4/25			
		1 utoriai-24		10/4/25			
	65.	Toxoids, and their		19/4/25			
		manufacturing methods.					
6	66.	Basic structure, layout,	After completion of	21/4/25	PPT/PDF&	Basic	
		sections, of	the topic's the		Notes	pharmaceutical	
		pharmaceutical	student will		through	calculations	
	67.	manufacturing plants Activities of	understand about structure, layout,	22/4/25	online mode	ratios,	
	07.	pharmaceutical	sections, activities	2217123		percentage	
		manufacturing plants	and cGMP of			fraction,	
		Tutorial-25	pharmaceutical	24/4/25		alligation, proof	
			manufacturing plants			spirit, isotonicity	
	68.	Definition and	plants	26/4/25		isotometry	
		concepts of quality					
		control and quality					
	69.	assurance, Current good	-	28/4/25	_		
	0).	manufacturing practice		20/4/23			
		(cGMP)					
		TD 4 1 1 2 4	_	1 /5 /0.5			
		Tutorial-26		1/5/25			
	70.	Current good		3/5/25			
		manufacturing practice (cGMP)					
	71.		-	5/5/25	\dashv		
	'	concept of calibration					
		and validation					

7	72.	Novel drug delivery systems: Introduction Classification with examples	After completion of the topic's the student will understand about	6/5/25	PPT/PDF& Notes through online mode	About various drug delivery systems	
		Tutorial-27	Novel drug delivery systems, its	8/5/25			
	73.	Advantages and disadvantages of Novel drug delivery systems	advantages and disadvantages, approaches and challenges of Novel	13/5/25			
	74.	Approaches to design- controlled release formulations	drug delivery systems	15/5/25			
	75.	Challenges of Novel drug delivery systems		17/5/25			

1. Total No of Assignments given: 03

2. Model question paper given: Yes/No

3. No. of extra Lectures delivered:

4. Feedback from student taken: Yes/No

Signature of the subject Teacher

Principal