GAUTAM COLLEGE OF PHARMACY DISTT.HAMIRPUR 177001 (H.P) LESSON PLAN

Course: D. Pharmacy 2nd Year

Session-2023-2024

Subject Name: Pharmacology Subject Code: ER20-21T

Total teaching hours allocated by PCI= 75 hrs

Name of faculty: Sunil Kumar Duration of topic: 1 hr

Syllabus coverage schedule

			Syllabus covera		1	m	A	Damaria
Cha	Topic	Title of Topic	Learning	Schedule	Actual	Teaching	Assignment	Remarks
pter	No		outcome	Date	date of	aids to be	Detail	
No.					lecture	used	1	
	Ì			1	taken			
1	1	Introduction and scope	After	07/08/2023	11	Hand	Assignment	Λ
1	1	of pharmacology	completion of	07/08/2023	107/08/02	written	on various	
		Various routes of drug	the topic's the	-	1 10/03	Notes	routes of	///
1		administration -	student will	l	,	INOICS	drug	$ \mathcal{L} $
		advantages and	understand				administrati	11.
		disadvantages	about general				on	<i>y</i>
	2	Drug absorption -	concepts of	08/08/2023	261 1			1 h
1	-	definition, types, factors	pharmacology	00/00/2025	11/08/23			11/7-
		affecting drug absorption	including		, Jan			Man
	3	Bioavailability and drug	pharmacokinet	09/08/2023	101 100			411/1
		distribution of drugs	ics, pharma		1 1 81 081231	1, 1		104
		Tutorial no1	codynamics,	14/08/2023	11/08/03			Jet 1
	4	Drug distribution -	bioavailabilty,	16/08/2023	97030			1 11 111
		definition,	routes of		1551×8123			n Atol
1	5	Factors affecting drug	administration,	19/08/2023	9110-151			IAI
		distribution	etc.		X9 108123			14
	6	Biotransformation of		21/08/2023	01/00/01			
-		drugs Tutorial no2	-	22/00/2022	1101 100			0'/)
	7	Types of	-	22/08/2023	V 4/09/93			1.
1	'	biotransformation	1	23/08/2023	m 5/			W 110)
1		reaction			P 3/01/23	÷.		
	8	Factors influencing drug	1	26/08/2023	1 (/00			A 191
		metabolisms		20/08/2023	18/19/02			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
	9	Excretion of drugs and	1	28/08/2023	1 1 / KX			A A
		general mechanism of		_ 5, 00, 2025	Manla			()/)
		drug action			["["]"][][]			12.0
		Tutorial no3		29/08/2023	12109(12			Y H
	10	Drug distribution		02/09/2023	10111100			'()/)/
2	11	Drugs Acting on the	After	04/09/2023	Start	PPT/PDF		V/X
		Peripheral Nervous	completion of		15/09/92	&	1	Y 1
		System	the topic's the		1100	Notes	l	'n /) l
			student will			through	l	$V_{\mu}V_{\mu}$
			understand			on		√/ <u>`</u>
	10	0 1 . 1 .	about			line mode	- 1	ツ
- 1	12	Steps involved in	neurohumoral	05/09/2023	[8/01/1			1 A
		neurohumoral transmission	transmission		144197			ן עגנו
		Tutorial no4	and definition,	0.6/00/2023	115		n	W/: _
	l	1 utoriai 1104	classification,	06/09/2023	1 3/09/92			X 10/1

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			pharmacologic	11/09/2023	2209123			<i> </i>
	13	Cholinergic drugs,	al actions,	12/09/2023	92111123			NA CONTRACTOR
	14	A drenergic drugs	dose,	13/09/2023	46100193			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	15	Anti-adrenergic drugs	mechanism of	16/09/2023	04.1102			11/1/20
Bir		Tutorial no5	action	18/09/2023	791091XJ			MY ST
	16	Anti-Cholinergic drugs Neuromuscular blocking	indications,	19/09/2023	25/1/1/2			
MI.	17	agents	and		0 7 10 140			1
	10	Drugs used in Myasthenia	contraindicatio	20/09/2023	06/11/13			122.00
	18	gravis	ns of various		VOI KINO			 \
	-	Tutorial no6	class of drugs	23/09/2023	04/10/23			- Pak
TATE OF THE PARTY	19	Local anaesthetic agents	used in peripheral	25/09/2023	13/16/23			11 <i>0</i> 11
	1		nervous	25/22/222	17/11/00			19.1
	20	Non-Steroidal Anti-	system	26/09/2023	11/1/10			*! <i> //-</i>
		Inflammatory drugs	System		1(0) 10 20			1 4
		(NSAIDs)			1 1			
	21	Classification and		27/09/2023	2011/12/3			1 Lot of
		Mechanism of NSAIDs		20/00/2022	11/1/19			177, MY
		Tutorial no7		30/09/2023 03/10/2023	NOT 10 35	Hand		1
3	22	Drugs Acting on the Eye	After	03/10/2023	20/1/12	written		<i> </i>
		Miotics	completion of the topic's the		الكالها المال	Notes		ST.
BID 2	100	Mydriatics Drugg wood in Clausers	student will	04/10/2023	ΔΙ	710100		W
	23	Drugs used in Glaucoma	understand	04/10/2025	11/23			
			about drugs,		ן אויי ואן			l <i>V/)</i> l
	4		their					I.M. 1
	-4		classification,					
			usage,					
		1	contraindicatio					1
			n used in eye					1
4	24	Drugs Acting on the	disease After	07/10/2023	101 1	PPT/PDF	Assignment	ΛΛ.
in the	24	Central Nervous System	completion of	07/10/2023	17/11/23	&	on	1 1/1/) 1
8		Constant to the Experience	the topic's the		1.10	Notes	opioid	1 // 1
			student will			through	analgesics	144
	}		understand			on		1101
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			about	00/10/1000	10.11.102	line mode		I All
-	25	Tutorial no8	definition, classification,	09/10/2023	90/11/23			MAD
-	25	General anaesthetics Hypnotics and sedatives	pharmacologic	10/10/2023	12/11/18/3			
Č.	20	Hyphotics and sedatives	al actions,	11/10/2023	34/11/23			/) / N
F	27	Anti convulsant drugs	dose,	16/10/2023	14/1/193			W A
(2)	- <u>-</u> -	Tutorial no9	mechanism of	17/10/2023		<u> </u>		12h. 111
B. V.	28	Anti-anxiety drugs	action	18/10/2023	ANTH LAK	 		110-81
		Anti-depressant drugs	,indications,		10111123			1 / 1
Dist.	29	Anti-psychotics	and	21/10/2023	PU1 1212	1		1 1/1/1/1
1	30	Centrally acting muscle	contraindicatio	23/10/2023	11 14/40			1 1111
A.		relaxants	ns of various class of drugs		05/18/8	3		1 py
3.		Tutorial no10	used in	28/10/2023	1, 1			1
			centrally		08/19/9	2		1 ()//
			acting nervous		1 diala	4		<i>III ·</i>
8			system					M. 1
5.1	31	Opioid analgesics		30/10/2023	[[IIA]a	2		TKI !
5	32	Drugs Acting on the	After	31/10/2023		PPT/PDF	D F	- M-
		Cardiovascular System	completion of		intrata	. &	3	1 0 0
	1		the topic's the		1d 12/2	Notes		1011
			student will		1	through		111/2
			understand			on		1125 1
			about			lineDinde	ice Gina	1
			10	2/		Gauta		

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	33	A fill-liv Delicitist Co. C.	classification,	01/11/2023	15/12/23			J.
			pharmacologic	08/11/2023	181 12123			PLA
	24	A disparing drugs	al actions,	14/11/2023	Int Int In			Y a
	34	Anti-arrhythmic drugs	mechanism of	18/11/2023	141 1214			
	35	Drugs used in	action, dose,	20/11/2023	.99 1(4192			151
311	36	atherosclerosis	indications,		on livian			(')
		Tutorial no12	and	21/11/2023	2014133			M.
	37	Congestive heart failure	contraindicatio	22/11/2023	90112123			AN
	38	Drug therapy for shock	ns of various	25/11/2023	41114			10
	36	Diag merep	class of drugs used in cardio		0 0 304			\mathcal{P}
			vascular		1 1 1 Jun			4)
			system					71
	20	Drugs Acting on Blood	After	28/11/2023	0.1.	Hand	Assignment	Λ
6	39	and Blood Forming	completion of		101/0//94/	written	on non-	ן עון
		Organs	the topic's the		1 1/4 1	Notes	steroidal	1 . [2].
	1	Organs	student shell		1		Anti inflammator	4.
	1		be know		1			
	1		about,				y drugs	100
			classification,		411. (1.		drugs	
		Tutorial no13	pharmacologic	29/11/2023	2 17 (174			470
	40	Hematinic agents	al actions,	02/12/2023	11/1/1/24			10.
	41	Anti-coagulants	mechanism of	04/12/2023	191124			100
	42	Anti-platelet agents	action, dose, indications,	05/12/2023	13171194			11.11
		Tutorial no14	and	06/12/2023 11/12/2023	3010100			71
	43	Thrombolytic drugs	contraindicatio	11/12/2023	अपाणा <u>त</u> प			100
	1		ns drugs used		,			ا لإرا ا
			in blood and					14%.
			blood forming					
			organs					
7	44	Definition, classification,	After	12/12/2023	29/1/24	PPT/PDF		100
		pharmacological actions,			1 1/201	& Notes		לויון
		dose,	the topic's the			through		1.
		indications, and contraindications of	understand			on		
		Bronchodilators,	about drugs,			line mode		
		Expectorants	their					
	45	Anti-tussive agents,	classification,	13/12/2023	Jalach Mi			0.0
		Mucolytic agents	mechanism of		30/01/04			1 (//)
			action, usage,					
	1		contraindicatio		1			121.
			n which are	1				
			used in					
			respiratory					
	1		system disorders			1		
	-	Tutorial no15	disorders	16/12/2023	1001011	u		1 ()
0	16	Drugs Acting on the	After	18/12/2023		Hand	Assignment	1
8	46	Gastro Intestinal Tract	completion of	10.12.2023	15/00/s	written	on anti-ulcer	
		Gastio Intestinat Itali	the topic's the		100/3	Notes	drugs	
	47	Anti-ulcer drugs	student will	19/12/2023	3 061096			1
	48	Anti-emetics	understand	20/12/2023				11/)
	10	Tutorial no16	about drugs,	23/12/2023				TA A
	49	Laxatives and purgatives	their	26/12/2022				111)/).
	50	Anti-diarrheal drugs	classification,	27/12/202		1.		1
			mechanism of		16/02/	Y		1 40
			action, usage,		141 010			oft.
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			contraindicatio					
			n etc which are					-
			used in gastro					
			intestinal tract					
			diseases		100	Hand		0.0
9	51	Drugs Acting on the	After	30/12/2023	11/02/98	written		ען
,	1	Kidney	completion of		1. 100183			18/1
		Diuretics	the topic's the		101 2102	Notes		12/
		Tutorial no 17	student will	01/01/2024	19/00/00			43/
	52	Anti-Diuretics	understand	02/01/2024	1 1 0 10 04			
1	32	Alti-Blaicties	about drugs		In landan			111
1		,	their		W Kalay			'/)
1			classification,		1 ' ' '			W.
		1	mechanism of		1			1 2/
			action, usage,					-1
5.			contraindicatio		1			_
			ns which are		1			
			used in renal		1			
	ł		system					
			disorders	20/5/10/20	A .	PPT/PDF	Assignment	
10	53	Hormones and Hormone	After	03/01/2024	23/02/24	&	on	ΛΛ
		Antagonists	completion of		~ UTW X	Notes	medicines	
		=	the topic's the		1 1	through	and meals:	M
			student will			on	before or	1 1
}			understand about various		1	line mode	after food	
	54	Thursid barrens	types of	06/01/2024	9/19/00	inio mode		0/)
1	34	Thyroid hormones	hormones and	00/01/2024	36 102 124			Variation 1
	-	Anti-thyroid drugs Tutorial no18	their role and	08/01/2024	16 63194			11.
-	55	Parathormone,	mechanism of	09/01/2024	No lanta			ALLY
	33	Calcitonin	action		197126194			W
	56	Vitamin D	1	10/01/2024	11/03/24			(V/)
	57	Insulin	1	16/01/2024	11/10 3/12/4			\mathcal{A} .
	1	Tutorial no19	1	17/01/2024	12/12/94			147
	58	Oral hypoglycemic agents	1	20/01/2023	1-1-12			1
	1]		15/13/24			1 de
	59	Estrogen Progesterone]	22/01/2024	18/03/04			VXI
	60	Oxytocin]	23/01/2024	18103134			1
		Tutorial no20]	24/01/2024	19103124			11/19
	61	Corticosteroids		27/01/2024	221021JU			Jef.
11	62	Autocoids	After	29/01/2024	r. C	Hand		A V
	1		completion of	1	136103124	written		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
			the topic's the		1, 61 01	Notes		1 47
	63	Physiological role of	student will	30/01/2024	all sular			1 1/7
		Histamine, 5 HT and	understand	1	1 1 04/24			1 1/2
		Prostaglandins	about	21/04/22	1111111			1711
		Tutorial no21	mechanisms of	31/01/2024	101104/2	Ч	*	J.
	64	Classification, clinical	self cure or	03/02/2024	101.11			1 7/1
		uses, and adverse effects	self healing		16210411	1		1 1117
		of antihistamines and 5	process		' '/^	-		1 tt.
		HT antagonists	1.0	05/05/555	-	DDC (D = -		1
12	65	Chemotherapeutic	After	05/02/2024	05/04/9	PPT/PDF		<i> () (</i>
		Agents:	completion of		אורטוכין	118	1	1 1/1)
			the topic's the			Notes		1 H.
	1		student will			through		101
		1	understand	l		on		1/1/
1	(1	ł .				
			about			line mode	-	LA/I
	66	Penicillins Cephalosporins	about definition, classification,	06/02/2024	n 8/04/2			h (1),

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Director Principal '
Galtary Offices of Pharmacy
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		Tutorial no22	pharmacologic	07/02/2024	69/04/94			A.A
	67	Aminoglycosides	al actions,	12/02/2024	18/104/841		Assignment	41
	68	Fluoroquinolones Macrolides	dose, mechanism of action ,indications, and contraindicatio	13/02/2024	14/04/24		on pre- clinical studies in new drug development	H.
	69	Tetracyclines	ns of various class of drugs	14/02/2024	130104/24			Y July.
	10,	Tutorial no23	used in various	17/02/2024 19/02/2024	130104104			1
	70	Sulphonamides	types of	20/02/2024	03103184			14/ A/)
	71	Anti-tubercular drugs	malignat	21/02/2024	10/10/718 4 1			
	72	Anti-fungal drugs	disorders	24/02/2024	10310518 41			H)/)7—
		Tutorial no24	-	04/03/2024	nularian			WIA.
	73	Anti-viral drugs	-	05/03/2024	1041851241			
	74	Antiamoebic agents	-	06/03/2024	1) y lan low			1100
	75	Anthelmintics	-	11/03/2024	1/2/1/			1411) 1/1-
		Tutorial no25	4	12/03/2024	06/05/24			1 APD
	76	Anti-malarial agents		13/03/2024	DDI O DIM		A simmont	J
13	77 78	Anti-neoplastic agents Biologicals Definition and types	After completion of the topic's the student will understand	16/03/2024 18/03/2024	06 05 84	Hand written Notes	Assignment on drugs available as paediatric formulations	10.
		Tutorial no26	about	19/03/2024	104/03/04			1 1/2
	79	Indications of biological agents with Examples	biological, types with examples from various sources and role of biologicals	19/03/2024				1.

1. Total No of Assignments given:

07

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

HOD

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GAUTAM COLLEGE OF PHARMACY DISTT.HAMIRPUR 177001 (H.P) Lesson Plan Practical

Course: D. Pharmacy 2nd Year

Session-2023-2024

Subject Name: Pharmacology Subject Code: ER20-21P

Total teaching hours allocated by PCI= 50 hrs

Name of faculty: Sunil Kumar

Duration of topic: 2hrs

experiments Introduction to experimental pharmacology Study of laboratory animals (a) Mice; (b) Rats; (c) Guinea pigs; (d) Rabbits Commonly used instruments in experimental	A 19/08/2 3 26/08/23	12/08/23		J.P.
experimental pharmacology Study of laboratory animals (a) Mice; (b) Rats; (c) Guinea pigs; (d) Rabbits Commonly used instruments in experimental	26/08/23	17/08/23		J.
Study of laboratory animals (a) Mice; (b) Rats; (c) Guinea pigs; (d) Rabbits Commonly used instruments in experimental				
Commonly used instruments in experimental	09/19/93	4.1		,
pharmacology	1 01 1/00	04/18/93		of the second
Different routes of administration of drugs in animals	10/0 9/23	31/08/23		
Types of pre-clinical experiments: In-Vivo, In-Vitro, Ex-Vivo, etc.	23/19/23	14/09/23		
Techniques of blood collection from animals	30/09/24	21/09/23		J.
Study of local anesthetic on rabbit eye	07/0/23	15/10/23		J.
Study of analgesic activity by writhing test	21 110/23	12/10/23		H
Screening of anti convulsant using Electro Convulsiometer	24/10/23	19/10/23		ff.
Screening of Muscle relaxants using Rota-Rod apparatus	18/11/93	26/10/93		H
To study effect of malgesics using	25/11/23	23/11/23		ff.
Study of anxiolytic activity using eddy's hot	02/12/23	07/08/83		J.
	Different routes of administration of drugs in animals Types of pre-clinical experiments: In-Vivo, In-Vitro, Ex-Vivo, etc. Techniques of blood collection from animals Study of local anesthetic on rabbit eye Study of analgesic activity by writhing test screening of anticonvulsant using Electro Convulsiometer Screening of Muscle elaxants using Rota-Rod pparatus To study effect of nalgesics using nalgesiometer Study of anxiolytic	Different routes of administration of drugs in animals Types of pre-clinical experiments: In-Vivo, In-Vitro, Ex-Vivo, etc. Techniques of blood collection from animals Study of local anesthetic on rabbit eye Study of analgesic activity by writhing test convulsant using Electro Convulsiometer Screening of Muscle elaxants using Rota-Rod pparatus To study effect of nalgesics using nalgesiometer Study of anxiolytic ctivity using eddy's hot	Different routes of administration of drugs in animals Types of pre-clinical experiments: In-Vivo, In-Vitro, Ex-Vivo, etc. Techniques of blood collection from animals Study of local anesthetic on rabbit eye Study of analgesic activity by writhing test convulsant using Electro Convulsiometer Screening of Muscle elaxants using Rota-Rod pparatus To study of anxiolytic ctivity using eddy's hot Different routes of administration of drugs	Different routes of administration of drugs in animals Types of pre-clinical experiments: In-Vivo, In-Vitro, Ex-Vivo, etc. Techniques of blood collection from animals Study of local anesthetic on rabbit eye Study of analgesic activity by writhing test Screening of anticonvulsant using Electro Convulsiometer Screening of Muscle elaxants using Rota-Rod pparatus To study effect of nalgesics using malgesiometer Study of anxiolytic ctivity using eddy's hot Different routes of drugs 23 9 23 19 23 14 0 23 14 0 23 14 0 23 15 0 23 26 0 27 27 0 23 28 0 28 29 0 29 20 0 20

Director.'P Gautam/C