

**Gautam College Of Pharmacy
Hamirpur (H. P)**

LESSON PLAN

Name of Faculty:
Subject name :Pharmacognosy
Course : D. Pharmacy

Session-2023-2024
Subject code : ER20-13T
Semester / Year : 1st year
Each lecture :1 hour

Syllabu Coverage Schedule

Unit No.	Lesson No.	Particular /Topic Details	Date	Teaching Aids to be used	Assignme nt Detail
Chapter 1 Introduction to Pharmacognosy	1	Definition and History of Pharmacognosy	10/08/23	CIT	3m
	2	Present status of Pharmacognosy	11/08/23	CIT	3m
Chapter 2 Classification of drugs	3	Alphabetical and taxonomical	14/08/23	CIT	3m
	4	Morphological and Chemical	16/08/23	PPT	3m
	5	Pharmacological	17/08/23	CIT	3m
	6	Chemo- taxonomical	18/08/23	CIT	3m
Chapter 3 Quality control of crude drug	7	Definition of crude drug	21/08/23	CIT	3m
	8	Difference between organised drug and unorganised drug	23/08/23	PPT	3m
	9	Adulteration	24/08/23	CIT	3m
	10	Adulteration of crude drug	25/08/23	CIT	3m
	11	Different method of adulteration	28/08/23	CIT	3m
	12	Evaluation of crude drug	31/08/23	PPT	3m
Chapter 4 Brief outline of occurrence , distribution , isolation , identification test and pharmacological application of	13	Alkaloids	1/09/23	CIT	3m
	14	terpenoids	4/09/23	CIT	3m
	15	Glycosides	6/09/23	CIT	3m
	16	Volatiles oils	7/09/23	CIT	3m

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	17	Tannins	08/09/23	PPT	3m
	18	Resins	11/09/23	CIT	3m

Chapter 5 Biological source , chemical constituents and therapeutic use of crude drugs	19	Laxatives - Aloe , castor oil	13/09/23	CIT	3m
	20	Ispaghula , senna	14/09/23	CIT	3m
	21	Cardiotonic - Digitalis and Arjuna	15/09/23	CIT	3m
	22	carminatives - Coriander , fennel , Cardamom	18/09/23	CIT	3m
	23	Ginger , clove , Black pepper	21/09/23	PPT	3m
	24	Asafoetida , nutmeg , cinnamon	24/09/23	PPT	3m
	25	Astringents - Myrobalan , Black catechu , Pale catechu	25/09/23	CIT	3m
	26	Drugs acting on nervous system - Hyoscyamus , Belladonna	28/09/23	CIT	3m
	28	Ephedra , opium ,tea leaves	05/10/23	CIT	3m
	29	Coffee seeds , coca	06/10/23	CIT	3m
	30	Anti- hypertensive - Rauwolfia	09/10/23	CIT	3m
	31	Anti- tussive - vasaka , tolu balsam	11/10/23	PPT	3m
	32	Anti - rheumatics - Colchicum seed	12/10/23	PPT	3m
	33	Anti - tumour - Vinca , podophyllum	13/10/23	CIT	3m
	34	Antidiabetics - Pterocarpus , Gymnema	16/10/23	CIT	3m
	35	Diuretics - Gokhru , Punarnava	18/10/23	CIT	3m
	36	Anti - dysenteric - ipecacuanha	19/10/23	CIT	3m
	37	Antiseptics and disinfectants - Benzoin , myrrh	20/10/23	PPT	3m
	38	Neem , Turmeric	23/10/23	CIT	3m
	39	antimalarials - Cinchona , artemisia	25/10/23	CIT	3m
	40	Oxytocic - ergot	26/10/23	CIT	3m
	41	Vitamins - Cod liver oil	27/10/23	CIT	3m
	42	shark liver oil	30/10/23	CIT	3m
	43	Enzymes - Papaya , Diastase	02/11/23	CIT	3m
	44	Pancreatin , Yeast	09/11/23	CIT	3m
	45	Pharmaceutical aid - Kaolin , Lanolin	10/11/23	CIT	3m
	46	Beeswax , acacia	16/11/23	PPT	3m
	47	Tragacanth , sodium alginate ,agar,guar gum ,gelatin	17/11/23	CIT	3m

	48	Miscellaneous - squill , Galls , Ashwagandha Tulsi , guggul	20/11/23	CIT	3m
Chapter 6 Plants fibers used as surgical dressings	49	Cotton , silk, wool	22/11/23	CIT	3m
	50	Regenerated fibres	4/12/23	PPT	3m
	51	Sutures - Surgical Catgut and Ligatures	6/12/23	PPT	3m

Chapter 7 Basic principles involved inb traditional systems of medicine	52	Ayurveda	7/12/23	CIT	3m
	53	Siddha	8/12/23	CIT	3m
	54	unani	11/12/23	CIT	3m
	55	Homeopathy	13/12/23	PPT	3m
	56	Method of prepration of Ayurvedic formulations - Arista , Asava	14/12/23	CIT	3m
	57	Gutika , Taila	15/12/23	CIT	3m
	58	Churna	18/12/23	CIT	3m
	59	Lehya and Bhasma	20/12/23	CIT	3m
Chapter 8 Role of medicinal and aromatic plants	60	Role of medicinal and aromatic plants in national economy	21/12/23	CIT	3m
	61	and their export potential	23/12/23	PPT	3m
Chapter 9 Herbs as health food	62	Nutraceuticals , antioxidants	25/12/23	CIT	3m
	63	Pro-biotics , Pre - biotics	29/12/23	CIT	3m
	64	dietary fibres , Omega - 3- fatty acid	1/02/24	CIT	3m
	65	spirulina , carotenoids , soya , garlic	2/02/24	CIT	3m
Chapter 10 Introduction to herbal formulation	66	Introduction to herbal formulation	5/02/24	PPT	3m
	67	Importance of herbal formulation	7/02/24	PPT	3m
	68	uses of herbal formulation	8/02/24	CIT	3m
	69	barious types of herbal formulation	09	CIT	3m
Chapter 11 herbal cosmetics	70	Source , Chemical constituent , commercial preparations , therapeutics use and cosmetic use of - Aloe vera gel	12/02/24 15/02/24	CIT	3m

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	71	Lavender oil , olive oil	1/04/24	CIT	3m
	72	rosemary oil	4/04/24	PPT	3m
	73	sandal wood oil	6/04/24	CIT	3m
Chapter 12 Phytochemical investigation of drugs	74	Phytochemistry	10/04/24 12/04/24 29/04/24	CIT	3m
	75	Phytochemical investigation of drugs	02/05/24.	CIT	3m

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Lesson Plan Practical

Name of Faculty –

Subject & code: Pharmacognosy (Practical) &(ER20-13P),

Session: 2023-2024

Sr. no	Title of Virtual Experiments	Scheduled date Batch A	Scheduled date Batch B	Requirements	Remark
1.	To identify the morphological characteristics of given crude drug ispaghula.	22/08/23	23/08/23	Watch glass, ispaghula	<u>Bankush</u>
2.	To identify the morphological characteristics of given crude drug senna.	05/09/23	05/09/23	Watch glass ,senna	<u>Bankush</u>
3.	To identify the morphological characteristics of given crude drug coriander.	12/09/23	13/09/23	Watch glass, coriander	<u>Bankush</u>
4.	To identify the morphological characteristics of given crude drug fennel.	03/10/23	04/10/23	Watch glass, fennel	<u>Bankush</u>
5.	To study about the morphological characteristics of given crude drug cardamom.	10/10/23	11/10/23	Watch glass, cardamom	<u>Bankush</u>
6.	To identify the morphological characteristics of given crude drugs ginger.	17/10/23	18/10/23	Watch glass, ginger	<u>Bankush</u>
7.	To identify the morphological characteristics of given crude drug nutmeg.	08/11/23	09/11/23	Watch glass, nutmeg	<u>Bankush</u>
8.	To study about the morphological characteristics of given crude drug black pepper.	22/11/23	23/11/23	Watch glass, black pepper	<u>Bankush</u>
9.	To study about the morphological characteristics of given crude drug cinnamon.	29/11/23	30/11/23	Watch glass, cinnamon	<u>Bankush</u>
10.	To identify the morphological characteristics of given crude drug clove.	05/12/23	06/12/23	Watch glass, clove	<u>Bankush</u>
11.	To identify the morphological characteristics of given crude drug ephedra.	12/12/23	13/12/23	Watch glass, ephedra	<u>Bankush</u>
12.	To study about the morphological characteristics of given crude drug rauwolfia.	19/12/23	20/12/23	Watch glass, rauwolfia	<u>Bankush</u>
13.	To identify the morphological characteristics of given crude drug gokhru and punarnava.	26/12/23	27/12/23	Watch glass, Gokhru , punarnava	<u>Bankush</u>
14.	To identify the morphological characteristics of given crude drug cinchona and agar.	06/02/24	07/02/24	Watch glass, Cinchona and agar	<u>Bankush</u>

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15.	To perform the transverse section of the given crude drug ajwain.	13/02/24	15/02/24	Watch glass, blade, beaker, microscope, slide with coverslip, glass rod, safranin, glycerine, hot plate, ajwain.	<u>Bnkush</u>
16.	To perform the transverse section of the given crude drug cinnamon and cinchona.	20/02/24	21/02/24	Watch glass, blade, beaker, microscope, slide with coverslip, glass rod, safranin, glycerine, hot plate, cinnamon, cinchona.	<u>Bnkush</u>
17.	To perform the transverse section of the given crude drug coriander.	19/03/24	20/03/24	Watch glass, blade, beaker, microscope, slide with coverslip, glass rod, safranin, glycerine, hot plate, coriander	<u>Bnkush</u>
18.	To perform the transverse section of the given crude drug clove.	26/03/24	27/03/24	Watch glass, blade, beaker, microscope, slide with coverslip, glass rod, safranin, glycerine, hot plate, clove.	<u>Bnkush</u>
19.	To perform the transverse section of the given crude drug curcuma.	02/04/24	03/04/24	Watch glass, blade, beaker, microscope, slide with coverslip, glass rod, safranin, glycerine, hot plate, curcuma.	<u>Bnkush</u>
20.	To perform the transverse section of the given crude drug	16/04/24	18/04/24.	Watch glass, beaker, microscope slide with coverslip, safranin, glycerine, nuxvomica	<u>Bnkush</u>

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21.	To perform the identification test for given sample asafoetida(hing).	23/4/24	24/4/24	Test tube, test tube stand, bunsen burner, beaker, measuring cylinder, test tube holder, glass rod, petroleum ether, alochol, castor oil.	English
22.	To perform the identification test for given sample castor oil.	24/4/24	24/4/24	Test tube, test tube stand, bunsen burner, beaker, measuring cylinder, test tube holder, glass rod, petroleum ether, alcohol, castor oil.	English
23.	To perform the identification test for given sample pale catechu.	07/05/24	07/05/24	Test tube, test tube stand, bunsen burner, beaker, measuring cylinder, test tube holder, glass rod, alcohol, NaOH, chloform, HCl, petroleum , pale catechu.	English
24.	To perform the identification test for given sample benzoin.	—	—	Test tube, test tube stand, bunsen burner, beaker, measuring cylinder, test tube holder, glass rod, ferric chloride, petroleum ether, sulphuric acid, potassium permagnate, alcohol, benzoin.	—

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25.	To perform the identification test for given sample guar gum.		Test tube, test tube stand, bunsen burner, beaker, measuring cylinder, test tube holder, glass rod, ruthenium red, lead acetate, iodine, guar gum.	
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Subject teacher

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