

	Dr.Jodhe (1-20)		Dr. Naik (21-30)		Dr. Jadhav (31-50)
1	Jeevaniya	21	Snehopaga	31	Purishasangrahaniya
2	Brimhaniya	22	Swedopaga	32	Purishavirajaniya
3	Lekhaniya	23	Vamanopaga	33	Mutrasangrahaniya
4	Bhedaniya	24	Virechanopaga	34	Mutravirajaniya
5	Sandhaniya	25	Asthapanopaga	35	Mutravirechaniya
6	Deepaniya	26	Anuvasanopaga	36	Kasahara
7	Balya	27	Shirovirechanopaga	37	Shwasahara
8	Varnya	28	Chardinigrahana	38	Shothahara
9	Kanthya	29	Trishnanigrahana	39	Jwarahara
10	Hridya	30	Hikkanigrahana	40	Shramahara
11	Truptighna			41	Dahaprashamaniya
12	Arshoghna			42	Sheetaprashamaniya
13	Kushthaghna			43	Udardaprashamaniya
14	Kandughna			44	Angamardaprashamaniya
15	Krimighna			45	Shoolaprashamaniya
16	Vishaghna			46	Shonitasthapana
17	Stanyajanana			47	Vedanasthapana
18	Stanyashodhana			48	Sangyasthapana
19	Shukrajanana			49	Prajasthapana
20	Shukrashodhana			50	Vayasthapana

LIST OF NON LECTURE: Ist Term

PRACTICALS(Marks-100)				
Sr.No.	List of Topics	Term	Hours	175 H
1	1.AssessmentandUnderstandingtherelationbetweenParthivatwa&subjective/objectiveparametrictests	1	10	87 HRS
2	2.AssessmentofobjectiveparametricmeasuresofGuna	1	12	
3	3.AssessmentofRasa	1	6	
4	4. Comparativeorganolepticandmacroscopicexamination	1	23	
5	5.MicroscopicIdentificationofgenuineandadulterateddrug	1	4	
6	6.Demonstrationofskillstoidentifythemedicinalplantsinthecollegegarden.	1	10	
7	7.Outcampusvisit(Cultivatedgardens,Tissueculturelab,Herbaria,Pharmacognosylab,QualitycontrollabandForestplantdemonstration)	1	10	
8	8.EkalaDravyaprayoga	1	12	
9	9.Physico-chemicalstudy	2	8	50
10	10.Phytochemical	2	4	
11	11.ThinLayerChromatography(TLC)technique	2	2	
12	12.Demonstrationofskillstoidentifythemedicinalplantsinthecollegegarden	2	10	
13	13.Outcampusvisit(cultivatedgardens&In-situplantdemonstration)	2	10	
14	14.Ekaladravyaprayoga	2	10	
15	15.DifferentCultivationtechniqueincludingmethodsmentionedinVrikshayurveda	2	6	
16	16.ExerciseonNetworkpharmacology	3	6	38
17	17.Preparationsofdigitalherbarium	3	2	
18	18.Demonstrationofskillstoidentifythemedicinalplantsinthecollegegarden	3	10	
19	19.Outcampusvisit(cultivatedgardens&In-situplantdemonstration)	3	10	
20	20.Ekaladravyaprayoga	3	10	

1st Term Activity = 25hrs

	Topic name	Activity Details	Hours	Name of the staff
CO1,CO3	Dravyaguna Vigyana.	Group activity – Assignments are to be given to the students to prepare 2-3 flash cards on importance of Dravyaguna Vigyana in clinical practice.	1	Dr. Jadhav
CO1,CO5, CO8	Dravya	Segregation of dry drugs based on Panchabhoutika characteristics. Various Dravyas are given to the students for segregation of dravyas according to Panchabhoutik constitution Classify live plants based on Panchabhoutika characteristics in garden. (Details mentioned in Rasavaisheshik Sutra 2 chapter 101-111) Quiz – based on classifications of dravyas Brain storming - Activity should be assigned to the students to search in samhitas related to classification of dravyas as Prayogabheda, Doshagnabheda and Karmbheda. Prepare the list of specific assigned classification for group of students.	4	Dr. Jadhav
CO1,CO2, CO3	GunaPanchabhoutikatva, characteristics and classification.	Matching of Gurvediguna with its karma Animated Power point Presentation Brain storming - To search in Chikitsasthana of samhitas regarding clinical application of Gurvediguna and Paradiguna	2	Dr. Naik
CO1,CO2, CO3	Rasa	Game based activity by closing the eyes they should ask to identify the taste Activity based learning enlisting the dravyas of specific taste Matching activity -Matching of specific Rasas with their Guna& Karma Making of Flash cards - Cards with information regarding different concepts of Rasas	4	Dr. Jodhe
CO1,CO2, CO3	Vipak	Flash cards - Preparing flash cards containing pictures of dravya to identify dravya and its vipaka Preparing charts of 20 dravyas with	1	Dr. Jodhe

		ayatharthvipaka and yatharthvipaka		
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S.No	Name of Practical	Activity	Pract . Hr	Learning Objective	T- Lmethod	Domain	Name of Staff
CO1,CO2, CO3	Virya	Talk and chalk activity by students on Dwividhavirya and ashtavidhavirya. Making charts of dravyas from Bhavaprakashnighantu regarding Dwividhavirya- 25 SheetaVirya dravyas & 25 UshnaVirya Dravyas.			2		Dr. Jadhav
CO1,CO2, CO3	Prabhav	Puzzle – Segregating the dravyas based on Samanpratyayarabdha, Vichtrapratyayarabdha and Prabhava.			1		Dr. Naik
CO1	Interrelation of Rasa-Gun a- Virya-Vipaka-Prabhava with respect to strength – P.dynamics	Making flow charts regarding the rules explained in relation with concepts of dravyaguna Group Discussion - Interrelation of Rasa-Guna-Virya-Vipaka-Prabhava with respect to their strength - Pharmacodynamics			2		Dr. Jadhav
CO1,CO2, CO3,CO4, CO5	Karma	Case base learning- Taking different clinical conditions & selecting appropriate karma Think, Pair and share based activity- Specific problem has to be given, Student should be allowed to think and discuss about appropriate karmas Gamification- Pairing Karma with the drugs. Role play for identification of specific karma- Asking one student to enact & others to find out Karma Presentation- On concept of Karma, types of karma & Individual Karma. Enlisting specific karma- In relation to dravyas from Bruhatrayee&Sharangdharasamhita			5		Dr.Jodhe Dr. Jadhav Dr. Naik
CO1,CO8	Karmas of Dashemani	Cramming –Memorizing the dravyas from specific ganas Fish bowl activity written chits of drugs picked by students and should say the name of the Gana Shloka recitation- Shlokas of DashemaniGana (Ch. Su. 4) Symposia- Short discussion on various clinical applications of DashemaniGana			3		Dr. Jodhe (1-20) Dr. Jadhav (21-40) Dr. Naik (41-50)

1	Dravya Assessment and Understanding the relation between Parthivatwa& subjective/ objective parametric tests	1.1 Assessment and Understanding the relationbetween Parthivatwa& subjective/ objective parametrictests Density (bulk) Specific gravity (solid) Drugs to study for e.g.- Asthishrnkhala, Sariva, Vidari, Maricha, Shatavari, Jambu,Godhuma&Ushir a	10hrs	Experiment al Observatio n and perform	PT, DL (Demonst ration)	PSY GUD (Journal)	Dr.Jadhav
		1.2 Assessment andUnderstanding the relationbetween Jaliyatwa& subjective/objective parametric tests Viscosity Specific gravity Moisture content Drugs to study for e.g.- Kumari,Vidari, Sariva, Shunthi, Ikshu, Usheera, Kamala &Apamarga		Experiment al Observatio n Perform follow	PT, DL (Demonst ration)		Dr. Jadhav
		1.3 Assessment andUnderstanding the relationbetween Aagnyatwa&subjective/ objective parametrictests pH Moisture content Drugs to study for e.g.: Shunthi,Shatavari, Maricha, Dhataki, Chitraka, Gokhura, Hingu&Chandana		Experiment al Observatio n Describe Perform	PT, DL (Demonst ration)		Dr.Jodhe
		1.4 Assessment andUnderstanding the relationbetween Vayaviytwa&subjective / objective parametrictests Fat content Specific gravity Density (bulk) Drugs to study for e.g. : Usheera,Ashwagandha, Nimba, Vidari,Khadira, Tila, Jambu&Kapikacchu		Experiment al Observatio n Answer to method Perform	PT, DL (Demonst ration)		Dr. Jodhe

		1.5 Assessment and Understanding the relation between Aakashiyatwa&subjective/ objective parametric tests Density (Bulk) Drugs to study for e.g.: Usheera, Kumari, Apamarga, Jeeraka&Jatamansi		Experimental Observation Follow	PT (Practical)		Dr. Naik
2	Assessment of Objective parametric measures of Guna	2.1 Assessment of objective parametric measures Guru & Laghu Guna Density (bulk) Specific gravity (Liquid and solid) Drugs to study for e.g. : Guru: Shatavari, Bala; Laghu: Yava, Dhanyaka	12hrs	Experimental Observation Demonstration Perform	PT, DL	PSY GUD (Journal)	Dr. Jadhav
		2.2 Assessment of objective parametric measures of Snigdha and Rukshaguna drugs Total fat content Moisture content Swelling index Drugs to study for e.g. : Snigdha: Tila, Eranda; Ruksha: Kullatha, Vidanga		Experimental Observation Demonstration Perform	PT, DL		Dr. Naik
3	Assessment of Rasa	Assessment of Rasa based on classical Symptoms for each rasa dravyas. One Example For each rasa Perform the assessment of Rasa based on classical symptoms for each rasa dravyas.	6hrs	Perform	PT, DL	PSY ADT (Journal)	Dr. Jodhe
4	Comparative organoleptic and macroscopic examination	Comparative organoleptic (Taste, Color, Smell, Sound, Touch) and macroscopic examination (Size, Shape, Fracture, External markings like Lenticels, ridges, nodes, furrows, cracks, etc) of the following	23hrs	Perform	L_VC, PT, D_L BS,	PSY ADT (Journal)	Dr. Jodhe

		<p>group of drugs.</p> <p>a. Root: Aswagandha, Chitraka, Manjistha, Musta, Shatavari, Vatsanabha, Yashtimadhu.</p> <p>b. Rhizome/Stolon: Haridra, Katuki, Shunthi, Vacha.</p> <p>c. Stem: Asthishrinkhala, Guduchi.</p> <p>d. Bark: Arjuna, Ashoka, Kutaja, Nimba, Twak.</p> <p>e. Heart wood: Beejaka, Chandana, Khadira.</p> <p>f. Leaf: Kumari, Meshashringi, Vasa.</p> <p>g. Flower: Dhataki, Kunkum(kesara), Lavanga.</p> <p>h. Fruit: Amalaki, Aragavadha, Bhallataka, Bibhitaki, Gokshura, Haritaki, Madanphala, Maricha, Pippali, Vidanga.</p> <p>i. Phalaraja: Kampillaka</p> <p>j. Seed: Bakuchi, Ela, Eranda, Jyotishmati, Kapikacchu</p> <p>k. Unorganized drugs: Guggulu, Hingu, Mocharasa</p> <p>l. Whole plant: Apamarga, Bhrungaraja, Bhumyamalaki, Brahmi, Kalmegha, Mandukaparni</p> <p>m. Galls: Karkatshrungi</p>						
								Dr. Naik
								Dr. Jadhav
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								Dr. Jodhe
5	Microscopic Identification of genuine and adulterated drug	<p>Microscopic identification of genuine and adulterated drug, minimum 2 samples from Root/stem/leaf /bark/fruits. (E.g. Sariva/Vidanga/Maricha/Nagkeshar/</p>	4hrs	Perform	TUT,PT, D_L	PSY, ADT (Journal)	<p>Root- Dr. Jodhe</p> <p>Leaf- Dr. Jadhav</p> <p>Stem- Dr. Naik</p> <p>Bark- Dr. Jodhe</p> <p>Fruit- Dr.</p>	

		Chandan/Kampillak/Kumkum) Root- Chitraka, Manjishtha Stem- Asthishrinkhala, Guduchi Leaf- Kumari, Vasa Bark- Arjuna, Kutaja Fruit- Pippali, Madanphala					Jadhav
6	Demonstration of skills to identify the medicinal plants in the college garden.	Demonstrate identification features of college garden medicinal plants for their morphology, taxonomical keys, and regional flora with therapeutic uses. Participate actively in Identification of Medicinal plants.	10hrs	Demonstration	L_VC,M L,S DL,DG,F V	PSY, ADT (Journal)	3hrs Dr. Naik and Dr. Jadhav 4hrs Dr. Jodhe
7	Out campus visit (Cultivated gardens, Tissue culture lab, Herbaria, Pharmacognosy lab, Quality control lab and Forest plant demonstration)	Visit to observe the identification features of medicinal plants which are from cultivated or natural habitat / forest plant.	10hrs	Visit	L_VC,PT, D_L	PSY, ADT	Dr. Naik , Dr. Jadhav, Dr. Jodhe