# Department of Dravyaguna Vijnana (Pharmacology and Materia Medica ) Paper I – Part A

Unit	Topic	Domain	Time
No			(Hours
			)
		N	2
1.	Dravyaguna Shastra Paribhasa- Lakshana	Must Know	2
	of Sapta Padartha of Dravyaguna Vijnana viz 1.Dravya		
	2Rasa		
	3.Guna		
	4. Virya		
	5.Vipaka		
	6.Prabhava and		
	7.Karma.		
2.	<u>Dravya:</u>	Must Know	3
	1.Etymological derivation, definition,		
	panchbhoutikatwa.		
	2.Classification of Dravya according to		
	Samhitas and Nighantus Taxonomical classification.		
3.	Guna:	Must Know	2
٥.	Etymological derivation, definition and	Must Know	2
	Classification of Guna. Detailed knowledge		
	of		
	1.Gurvadi Guna		
	2.Paradi gunas.		
4.	Rasa:	Must Know	4
	1.Etymological derivation, definition,		
	Meaning of "Rasa" in various contexts.		
	2.Shad Rasas (Madhura, Amla, Lavana, Katu,		
	Tikta, and Kashaya), Panchabhautik		
	constitution of Rasas,		
	3.Nirvrittiviseshakrama (manifestation in		
	general and particular) Ritu and shad rasa		
	Rasanurasayoh bheda (Difference between rasa and anurasa),		
	Lakshana (characteristics),Guna and Karma		
	of shad Rasas, Kopana and Shamana of		
	Dosha and dushya by Shad rasas.		
	4.Effects of excess usage of Rasa.		
	Rasopalabdhi, Rasaskandha.		
5.	Vipaka:	Must Know	3
	1.Etymological derivation and definition,		
	difference between Avasthapaka and		
	Vipaka,		
	2.Types of Vipaka, (Dvividha-		
	Trividha,Panchavidha) Guna and karma of		

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	Vipaka.			
	3.Grades of Vipaka (taratan	nya),		
	Vipakopalabdhi hetu (Facto	ors to		
	determineVipaka).			
6.	Veerya:		Must Know	2
	1.Etymological derivation,	definition and		
	Swarupa of Virya, 2.Numbe			
	(Dwividha & Ashtavidha)	J		
	Panchabhauthikatva			
	3.Virya karmani (Effects of	Virva). General		
	principles in determination			
	With exceptions.	or vir ya arong		
7	Prabhava:		Must Know	2
′	1.Definition, Effects of Prab	hava	Must Know	2
	1.Definition, Effects of 1 1ab	iiava.		
8.	1.Interrelation of Rasa-Gun	a-Virva-Vinaka-	Nice to Know	1
0.	Prabhava with respect to the		THE COMMON	1
	(balabal nirupana).	ien strength		
	2.Samanapratyayarabdha a	nd		
	Vichitrapratyayarabdha dra			
9.	Karma:	avyas.	Must Know	6
<i>)</i> .	1.Lakshana, swaroopa and	Must Know	O	
	(Definition, nature and type			
	2.Explanation of the follows			
	examples:	ing Karmas with		
	examples.			
	1. Deepana	2. Pachana	3. Samshodhana	1
	4. Samshamana	5. Anulomana	6. Sransana	<u>-</u>
	7. Bhedana	8. Rechana	9. Chhedana	
	10. Lekhana	11. Grahi	12. Sthambhana	
	13. Madakari	14. Pramathi	15. Abhishyandi	
	16. Vyavayi	17. Vikashi	18. Rasayana	
	19. Vajeekarana	20. Jeevaneeya	21. Balya	
	22. Brimhana	23. Langhana	24. Medhya	
10.	.1.Brief information on Kar		Must Know	10
10.	dashemani gana of Charak		MUSCINIOW	10
11	Mishraka Gana:	Jamma.	Must Know	10
11	<b>11a)</b> - Audbhida Gana (Vege	etable origin)	MUSCINIOW	10
	Brihatpanchamoola, Lag			
	Vallipanchamoola, Kant	, <u>,</u>		
	Trinapanchamoola, Mad	=		
	ola, Jeevaneeya panchar	•		
	Panchapallava, Panchav			
	Trikatu,Trimada, Chatui	_		
	Panchakola, Shadusana,	•		
	Jeevaniya gana, Ashtava	•		
	Chaturajataka, Katuchat	-		
	Panchatikta, Amlapanch	•		
	Chaturbhadra, Trikarshi			
	Swalpatriphala, Madhur			
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	Mahavisha, Upavisha, Agrya aushadh		
	varga- Knowledge of Agrayaaushadha		
	Varga with example.		
	11 b.Jangama Gana (Animal origin) -		
	Ksheerashtaka, Mutrashtaka, Pitta		
	panchaka.		
	11c .Parthiva Gana (Mineral origin) -		
	Lavana Panchaka, Kshara dvaya, Kshara		
	Ashtaka.		
12	Basis of nomenclature:	Nice to Know	1
	Basis of nomenclature of dravya, Basis and		
	Derivation of synonyms.		
13.	Bheashaja Pariksha vidhi (as described in	Must Know	4
	Charaka samhita vimana sthana 8),		
	Dravya Sangrahana (collection of dravya)-		
	Ecology-		
	1.Classification of desha (geographical		
	area) and bhumi (soil), swarupa of		
	sangrahaniya dravya of (Nature and quality		
	of drug to be collected).		
	2.Sangrahana vidhi (Method of collection) -		
	Vegetable and Animal origin drugs		
	according to part used.		
	3.Period of collection according to virya,		
	samrakshana vidhi (preservation of		
	collected dravyas), bheshajagara		
	(Storehouse), study on different		
	prayojyanga (useful plant parts).		
14	a.Concept of dravya shodhan (purification of	Must Know	4
	dravya),	Trade IIIIo W	•
	b.Brief knowledge of Apamishran		
	(adulterants)		
	c.Concept of Abhava pratinidhi dravya		
	(substitutes)		
15.	1.Prashasta bheshaja (ideal drug), plant	Nice to Know	3
10.	extracts.	11100 10 11110 11	5
	2. Concept of viruddha Dravya		
	(incompatibility of the dravya).		
16.	Introduction to Nighantu Vigyan –	Must Know	6
10.	1.Dhanwantari Nighantu,	MUSC KIIOW	U
	2.Bhavaprakashanighantu,		
	3.Rajanighantu.		
17	Brief knowledge of cultivation, conservation	Nice to Know	3
1/	of medicinal plants and information about	INICE TO IZIIOM	J
10	endangered species.	Nice to Know	24
18.	Introduction, Definition & scope of	Nice to Know	34
	Pharmacology and Principles of general		
	Pharmacology.  Priof Knowledge about pharmacology of the		
	Brief Knowledge about pharmacology of the		
	27.27 Into the day about phur mucology of the		

		following – 1.Anaesthetics, CNS depressants,		
		2.Antipyretics, Analgesics,		
		3.Antiplatelet, Hypolipidaemic,		
		4.Digestants, Carminatives, Laxatives,		
		5.Hepatoprotective, Antiinflammatory,		
		6.Antiobesity, Antidiabetic, Styptics,		
		7.Antihistamines, Antimicrobial,		
		8.Minerals, Water imbalance and IV fluids,		
		9.Sedatives, Hypnotics, Tranquilisers,		
		10Antihypertensive,		
		11.Haemopoetic, Coagulants,		
		12.Aerosols/ Inhalants, Expectorants		
		13.Antacids, Antiulcer,		
		14.Antidiarrhoeals, Antiemetic,		
		15.Diuretic, Antidiuretic,		
		16.Hormonal therapy		
		17.Antithyroid, Oxytocic.		
		18 Colortage Program Antibiation		
		19.Galactagogues, Antibiotics,		
		20.Amoebicidal, Antifilarial,		
		21.Anthelmentic, Antifungal,		
		22.Vaccines,		
		23.Antivenom, antirabbies serum,		
		24.Anti cancer drugs		
		25.Immunomodulators.		
		26.Local anti septics, Antiepileptics,		
		27.Vitamins, Bronchodialators,		
		28.Drugs in ophthalmic practice,		
		29.Antianginal, Lithotriptic,		
_		30.Antimalarial,		
	19	Detailed Knowledge of Following Dravya –	Must Know	60
		1- Detailed knowledge of following drugs with		
		respect to Basonym of drug, Main Synonyms,		
		Regional Name, Botanical Name, Family,		
		Classification of Dravya (Gana) as described		
		in Charak and Sushrut, External morphology,		
		Useful parts, Important phytoconstituents,		
		Rasa panchaka, Action on Dosha, Dhatu,		
		Mala, Prayogarha vyadhi (therapeutic		
		indications), Amayikaprayoga and Matra		
		(Therapeutic administration and Dose),		
		Vishishta yoga (names of important		
		formulations), Vishakta Lakshan (adverse		
		effects), Chikitsopachara (remedial measures)		
		and Shodhana (as required)		
		1. Agaru,		
		2. Haridradvaya,		
		1. Patala,		
		2. Pippali-Pippalimula,		
		3. Amalaki,		
		4. Jambu,		
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5.	Pushkarmoola,	
6.	Aragvadha,	
	Jeerakadvaya,	
	Saireyaka,	
	Arjuna,	
	. Arkadvaya,	
	. Kantakari,	
	. Shalaparni,	
	. Shallaki,	
	. Bakuchi,	
	. Karpura,	
	. Katuki,	
	. Shigru,	
	. Bharangi,	
	. Bhrungaraj,	
	. Kumkum Kesara,	
	. Talisa Patra,	
	. Tila, Bilva,	
	. Brahmi,	
	. Lavanga,	
	. Tvak,	
	. Ushira,	
	. Chitraka,	
	. Dadima,	
	. Manjishtha,	
	. Varahi,	
	. Varuna,	
	. Durva,	
	. Durva, . Nagakeshara,	
	. Nimba,	
	. Vidari,	
	. Gokshura,	
	. Guduchi,	
	. Parpata,	
	. Pashanabheda,	
	,	
	. Agnimantha, . Haritaki	
	. Haritaki . Hingu,	
	. rungu, . Punarnava,	
	. Jatiphal,	
	. Rasona,	
	. Ardraka-Sunti	
	. Ardraka-Sunti . Arjuna	
	. Kalamegha	
	. Kampillaka,	
	=	
	. Sarivadvaya	
	. Sarpagandha,	
	. Asoka,	
	. Karkatakshringi,	
	. Shankhapushpi,	
	. Bhallataka,	
56.	. Kiratatikta,	

	57. Shyonaka,		
	58. Bibhitaka		
	59. Bijak/ Vijaysar,		
	60. Kushta		
	61. Trivrut		
	62. Tulasi,		
	63. Bruhati		
	64. Chandanadvaya,		
	65. Lodhra		
	66. Madanaphala,		
	67. Vacha		
	68. Varahi,		
	69. Dhataki,		
	70. Maricha		
	71. Musta,		
	72. Vasa		
	73. Vatsanabha,		
	74. Eranda		
	75. Gambhari,		
	76. Nirgundi		
	77. Palasha,		
	78. Yastimadhu		
	79. Jatamansi,		
	80. Yavani		
	81. Guggulu,		
	82. Ahiphena,		
	83. Aragvadha,		
	84. Rohitaka,		
	85. Kanchanara,		
	86. Ativisha,		
	87. Shatavari,		
	88. Kumari,		
	89. Kutaja,		
	90. Eladvayam,		
	91. Vidanga,		
	92. Prishniparni,		
	93. Apamarga,		
	94Kapikacchu,		
	95. Shalmali		
	96. Baladvayam,		
	97. Khadira		
	98. Ashvagandha		
	99. Shirisha		
	100. Mandukaparni,		
	101. Rasna		
	102. Devadaru		
	103. Kupilu		
20	Brief Knowledge of following dravyas	Must to	35
	with Respect to Sanskrit Name, Botanical	Know	
	Name, Family, Habit (Samanya Swarupa),	,	
	Parts Used and Indications.		
	1. Agastya,		

2. Jati,	
3. Jayapala,	
4. Parasika	
5. Parijata,	
6. Amlavetasa,	
7. Amra,	
8. Kadamba,	
9. Kaidarya,	
10. Parnayavani,	
11. Parpataka,	
12. Aparajita,	
13. Ashvagol,	
14. Kankola,	
15. Karanja,	
16. Patha,	
17. Patola,	
18. Atasi,	
19. Avartaki,	
20. Karira,	
21. Pilu,	
22. Karpasa,	
23. Plaksha,	
24. Babbula,	
25. Prasarani,	
26. Badara,	
27. Kasha,	
28. Bakula,	
29. Kasni,	
30. Priyangu,	
31. Kataka,	
32. Puga,	
33. Bijapoora,	
34. Putiha,	
35. Bola,	
36. Kebuka,	
37. Chakramarda,	
38. Kharjura,	
39. Rajika/Sarshapa	
40. Kitmari,	
41. Rohitaka,	
42. Chandrashura	
43. Saptachakra,	
44. Changeri,	
45. Koshataki,	
46. Chavya,	
47. Kulatha,	
48. Saral,	
49. Kumuda,	
50. Sarja,	
51. Chopachini,	
52. Shala,	
53. Danti,	

54. Kusmanda,		
55. Darbha,		
56. Lajjalu,		
57. Sharapunkha,		
58. Langali,		
59. Shatahwa		
60., Dhanvayasa,		
61. Shati,		
62. Dhanyaka,		
63. Latakasturi,		
64. Draksha,		
65. Madayantika,		
66. Sringataka,		
67. Mahanimba,		
68. Svarnakshiri,		
69. Gandhaprasarini		
70. Tagara,		
71. Garjara,		
72. Markandika,		
73. Gojihva,		
74. Masha,		
75. Talmuli,		
76. Mashaparni,		
77. Taruni,		
78. Gunja,		
79. Tavakshira,		
80. Hinsapa,		
81. Mayaphala,		
82. Hinstra,		
83. Meshashrungi,		
84. Tuvaraka,		
85. Methika,		
86. Udumbara,		
87. Hrutpatri,		
88. Urana,		
89. Ikshu,		
90. Mulaka,		
91. Indravaruni, 92. Murva,		
92. Murva, 93. Vata,		
94. Nagabala,		
95. Vatada,		
96. Irimeda,		
97. Vrudhadaru,		
98. Ishvaku,		
99. Narikela,		
100. Nili,		
101. Japa,		
102. Ajamoda		
103. , Kakamachi,		
104. Parushaka		
105. Jeevanti,		
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106.	Parisha,		
107.	Amragandhiharidra		
107.	Ashvattha,		
100.	Karavellaka,		
110.	Patranga		
110.	Avartani,		
111.	Priyala,		
112.	Kasamarda		
113. 114.			
	Bhumyamalki,		
115.	Katphala,		
116.	Putranjivaka		
117.	Champaka,		
118.	Kokilaksha,		
119.	Saptaparna		
120.	Chirbilva,		
121.	Shara,		
122.	Kusha		
123.	Dattura,		
124.	Latakaranja,		
125.	Snuhi		
126.	Dronapushpi,		
127.	Mandukaparni,		
128.	Tailaparni		
129.	Gorakshaganja,		
130.	Teja Patra,		
131.	Matulunga		
132.	Hribera,		
133.	Mudgaparni,		
134.	Vamsha		
135.	Ingudi,		
136.	Nala,		
137.	Vrukshamla		
138.	Padmaka		
139.	Palandu,		
140.	Akarkarabh,		
141.	Yavani,		
142.	Kadali,		
143.	Parnabija,		
144.	Ankola,		
145.	Kamala,		
146.	Patalagarudi,		
147.	Karavira,		
148.	Asthishrunkhala,		
149.	Isvari,		
	Guna, Karma and Uses of	Must Know	2
following Jan			
(Drugs of Ani	mal Origin).		
1. Kasturi			
2. Gorochana			
3. Mrigasring			
	Knowledge of Following	Nice to Know	3
Annapana Va	rga:		

	4 7 1 77	1	
	1. Jala Varga		
	2. Dugdha Varga		
	3. Madhu Varga 4. Taila Varga		
	5. Sukadhanya Varga		
	6.Shamidhanya Varga		
	7. Phala Varga 8. Shaka Varga		
	9. Mamsa Varga 10. Aharayogi		
			200
23.	A Study of Macroscopic characters of	Must Know	80
	following plants and their useful parts.		
	i. Kand (Stem) –Guduchi or Ashtishrinkhala		
	ii. Patra (Leaves ) – Vasa or Kumari		
	iii. Pushpa (Flowers and its parts )		
	iv. Phala (Fruit) – Maricha or madanaphala or		
	vidanga		
	v. Beeja ( Seeds)- Eranda or Kapicchhu		
	vi. Twak (Bark) – Kutaja or Arjuna or		
	Ashwatta		
	vii. Moola (Root) – Punarnava or chitraka.		
	viii. Niryasa (Exudate) – Guggulu or		
	Mocharasa.		
	ix. Jangama dravya – Madhu or gritha		
24	A Study of Microscopic characters of	Nice to Know	50
	following plants and their useful parts.		
	i. Kand ( Stem) –Guduchi or		
	Ashtishrinkhala		
	ii. Patra (Leaves ) – Vasa or Kumari		
	iii. Pushpa (Flowers and its parts )		
	iv. Phala (Fruit) – Maricha or madanaphala or		
	vidanga		
	v. Beeja (Seeds)- Eranda or Kapicchhu		
	vi. Twak (Bark) – Kutaja or Arjuna or		
	Ashwatta		
	vii. Moola (Root) – Punarnava or chitraka.		
	viii. Niryasa (Exudate) – Guggulu or		
	Mocharasa.		
2.5	Ix. Jangama dravya – Madhu or gritha	3.6	2.5
25	A Study of Demonstration of organoleptic	Must Know	25
	characteristics and grahya - Agrahyata of		
	following plants and their useful parts.		
	i. Kand (Stem) –Guduchi or Ashtishrinkhala		
	ii. Patra (Leaves ) – Vasa or Kumari		
	iii. Pushpa (Flowers and its parts )		
	iv. Phala (Fruit) – Maricha or madanaphala or		
	vidanga		
	v. Beeja (Seeds)- Eranda or Kapicchhu		
	vi. Twak (Bark) – Kutaja or Arjuna or		
	Ashwatta		
	vii. Moola (Root) – Punarnava or		
	chitraka.		
	viii. Niryasa (Exudate) – Guggulu or		
L	/	1	

	Mocharasa.		
	ix. Jangama dravya – Madhu or gritha		
26	1. Records of herbarium sheets of 50 medicinal	Must Know	20
	plants .		
	2. Compulsory study tour other state for field		25
	knowledge and procurement of plant		
	species		
			200

## **CURRICULUM PLANNING**

Unit No	Topic	Learning Objectives (At the end of the session the students should be able to)	Teaching Guidelines	Methodology	Time (Hou rs)
1.	Paribhasa- Lakshana of Sapta Padartha of Dravyaguna Vijnana viz 1.Dravya 2.Rasa 3.Guna 4. Virya 5.Vipaka 6.Prabhava and 7.Karma.	Enumerate the sapta padartha	To cover the introductory part of sapta padarthas as per different acharayas	1.Didactic 2. SIS	2
2.	Dravya: 1.Etymological derivation, definition, panchbhoutikatwa. 2.Classification of Dravya according to Samhitas and Nighantus Taxonomical classification.	Describe the dravya lakshans, as wel as aahara dravya and aushadhi dravya	To cover the concept of Dravya about the panchabhoutikat awa for its tara tama prayoga.	1.Didactic 2. SIS	3
3.	Guna: Etymological derivation, definition and Classification of Guna. Detailed knowledge of 1.Gurvadi Guna 2.Paradi gunas.	Explain the lakshana of guna ,vargas,superiority,an d their clinical applications	To cover the the properties, types ,importance in the clinical aspect as wel as in the swasthya condition.	1.Didactic 2. SIS 3.Role Play	2

4.	Rasa: 1. Etymological derivation, definition, Meaning of "Rasa" in various contexts. 2. Shad Rasas (Madhura, Amla, Lavana, Katu, Tikta, and Kashaya), Panchabhautik constitution of Rasas, 3. Nirvrittiviseshakrama (manifestation in general and particular) Ritu and shad rasa Rasanurasayoh bheda (Difference between rasa and anurasa), Lakshana (characteristics), Guna and Karma of shad Rasas, Kopana and Shamana of Dosha and dushya by Shad rasas. 4. Effects of excess usage of Rasa. Rasopalabdhi, Rasaskandha.	Describe the various number of tastes as per different acharyas their properties on swasthya condition,as per ritus as well as in rogavastha. About taste threshold.	To cover the sadrasa properties, its effects on dosa, dhatu, mala and its applicability in the clinical aspect. along with their advantage and its disadvantages.	1.Didactic 2. SIS 3.Group Discussion	4
5.	Vipaka:  1. Etymological derivation and definition, difference between Avasthapaka and Vipaka,  2. Types of Vipaka,  (Dvividha-Trividha, Panchavidha)  Guna and karma of Vipaka.  3. Grades of Vipaka  (taratamya),  Vipakopalabdhi hetu  (Factors to determine Vipaka).	Explain the digestion, the process of avasthapaka and vipaka.its types how the dosha, dushya and mala are formed	To cover the act of digestion .if the in particular avastha the concerned vipaka will not be formed then the suspected diseases.and to over come the particular disease the line of treatment	1.Didactic 2. SIS 3. Group Discussion	3
6.	Veerya: 1.Etymological derivation, definition and Swarupa of Virya, 2.Number of Virya. (Dwividha & Ashtavidha) Panchabhauthikatva 3.Virya karmani (Effects of Virya), General principles in determination of virya along With exceptions.	Describe about the formation of virya upon the particular drugs.and their properties .and to balance the health the knowledge about the usage of same or opposite vriya dravya .	To cover the potency of the drugs which will be suitable of the particular diseases	1.Didactic 2. SIS 3. Group Discussion	2
7	Prabhava: 1.Definition, Effects of	Describe the special effects of the	To cover the properties of	1.Didactic 2. SIS	2

	Prabhava.	particular drugs and its properties on the roga and rogi	prabhava which will be not related with the rasa panchaka.and its effect on roga and rogi.	3.Group Discussion	
8.	1.Interrelation of Rasa-Guna-Virya-Vipaka-Prabhava with respect to their strength (balabal nirupana). 2.Samanapratyayarabdha and Vichitrapratyayarabdha dravyas.	Explain the relation between dravya,guna,rasa, virya,vipaka and prabhava along with comprasion and its effect on the body	To cover how all the saptapadarathas are inter related along with prabhava .and effects on roga and rogi.	1.Didactic 2. SIS 3.Group Discussion	1
9.	Karma: 1.Lakshana, swaroopa and bheda of karma (Definition, nature and types of action). 2.Explanation of the following Karmas with examples:  1. Deepana. 2. pachana 3. samshodhana 4. Samshamana 5. Anulomana 6. Sransana 7. Bhedana 8. Rechana 9. Chhedana 10. Lekhana 11. Grahi 12. Sthambhana 13. Madakari 14. Pramathi 15. Abhishyandi 16. Vyavayi 17.Vikasi 18. Rasayana 19. Vajeekarana 20. Jeevaneeya 21. Balya 22. Brimhana 23. Langhana 24. Medhya	Explain the swaroop, bedha and their karma with the drugs which helps to enchance or decrease the particular effect.	To cover the meaning of each karma,its physiology and the drugs which enhances or decreases the particular karma.	1.Didactic 2. SIS 3. Group Discussion/ student seminar	6
10.	.1.Brief information on Karmas of dashemani gana of Charak Samhita.	Explain the individual dashemani and the drugs mentioned in each dashemani	To cover the need of mentioning the particular drug in the particular	1.Didactic 2. SIS 3.Group 4Discussion /student	10

			gana with their properties	seminar/field visit	
11	Mishraka Gana: 11a)- Audbhida Gana (Vegetable origin) Brihatpanchamoola Laghupanchamoola Vallipanchamoola Kantakapanchamoola Trinapanchamoola Madhyamapanchamoola Jeevaneeya panchamoola, Panchapallava Panchavalakala Triphala, Trikatu,Trimada, Chaturusana, Panchakola, Shadusana, Chaturbeeja, Jeevaniya gana, Ashtavarga, Trijataka, Chaturajataka, Katuchaturjataka Panchatikta, Amlapanchaka, Chaturbhadra,Trikarshika, Swalpatriphala, Madhuratriphala, Madhuratriphala, Mahavisha, Upavisha, Agrya aushadh varga- Knowledge of Agrayaaushadha Varga with example. 11 b.Jangama Gana (Animal origin) - Ksheerashtaka, Mutrashtaka, Pitta panchaka. 11c .Parthiva Gana (Mineral origin) - Lavana Panchaka, Kshara dvaya, Kshara Ashtaka.	Mention the gana and the individual drugs in the gana and their properties and indications	properties  To cover the ganas and indications of particular ganas in the relavent conditions.	1.Didactic 2.PPT 3.Group 4.Discussion/ student seminar/ field visit	10
12	Basis of nomenclature: Basis of nomenclature of dravya, Basis and Derivation of synonyms.	Mention the nomenclature of the dravyas	About nomenclature, synonyms of the particular drugs and its importance	1.Didactic 2. SIS 3. PPT	1

13.	Bheashaja Pariksha vidhi (as described in Charaka samhita vimana sthana 8), Dravya Sangrahana (collection of dravya)- Ecology- 1.Classification of desha (geographical area) and bhumi (soil), swarupa of sangrahaniya dravya of (Nature and quality of drug to be collected). 2.Sangrahana vidhi (Method of collection) - Vegetable and Animal origin drugs according to part used. 3.Period of collection according to virya, samrakshana vidhi (preservation of collected dravyas), bheshajagara (Storehouse), study on different prayojyanga (useful plant parts).	Explain the nature of soil, dravya, collection of particular dravya in the particular time, area.	To cover the importance of soil, dravya, to collect in the particular area, time, how to collect, its preservation and its importance.	1.Didactic 2. SIS 3.PPT 4.student 5.seminar field visit	4
14	a.Concept of dravya shodhan (purification of dravya), b.Brief knowledge of Apamishran (adulterants) c.Concept of Abhava pratinidhi dravya (substitutes)	Have the practical Knowledge of shodana karma of the required drugs. and identification of original drug,their substitutes and adultrants.	To cover the procedures of shodana ,need of shodana karma. identification of substitutes and adultrants . and their properties and their adverse effect.	PPt Field Visits Industrial Visits	4
15.	1.Prashasta bheshaja (ideal drug), plant extracts. 2. Concept of viruddha Dravya (incompatibility of the dravya).	To describe the prashasta bheshaja.what is incompatibility and incompatibility will be formed and what are its effects on the body.	To cover the need of prashasta bheshaja.its identification.for mation of incompatibility by the dravyas and its adverse effect on the body and its line of treatment.	PPt Field Visits group discussion	3
16.	Introduction to Nighantu Vigyan – 1.Dhanwantari Nighantu, 2.Bhavaprakashanighantu, 3.Rajanighantu.	Describe the Defination of Nighatu. Period of each Nighantu and particular nighantu in detail.	To cover the importance of Nighantu individually.the way of drugs mentioned in the	Didactic Group Discussion	6

			each Nighantu.		
c n ii	Brief knowledge of cultivation, conservation of medicinal plants and information about endangered species.	Explain the method of cultivation, along with flowering seasons, fruting etc. wat are endangered species.	To cover the good yield of the plants, about the manure to be used .conservation of the plants and their sps.how the plants get extinct.and how to conserve such plants	Didactic /PPT	3
S F F F F F F F F F F F F F F F F F F F	Introduction, Definition & scope of Pharmacology and Principles of general Pharmacology. Brief Knowledge about pharmacology of the following – 1. Anaesthetics, CNS depressants, 2. Antipyretics, Analgesics, 3. Antiplatelet, Hypolipidaemic, 4. Digestants, Carminatives, Laxatives, 5. Hepatoprotective, Antiinflammatory, 6. Antiobesity, Antidiabetic, Styptics, 7. Antihistamines, Antimicrobial, 8. Minerals, Water imbalance and IV fluids, 9. Sedatives, Hypnotics, Tranquilisers, 10. Antihypertensive, 11. Haemopoetic, Coagulants, 12. Aerosols/ Inhalants, Expectorants 13. Antacids, Antiulcer, 14. Antidiarrhoeals, Antiemetic, 15. Diuretic, Antidiuretic, 16. Hormonal therapy 17. Antithyroid, Oxytocic. 18 Contraceptives, 19. Galactagogues, Antibiotics, 20. Amoebicidal, Antifilarial, 21. Anthelmentic,	Describe the general pharmacology. Of the points as mentioned.	To cover the definition of each modern points and its description to correlate with the Ayurvedic Pharmacology and its clinical applications.	Didactic PPT SIS Poster presentation	34

Г	T	T	Т		
	Antifungal,				
	22. Vaccines,				
	23.Antivenom, antirabbies				
	serum,				
	24.Anti cancer drugs				
	25.Immunomodulators.				
	26.Local anti septics,				
	Antiepileptics,				
	27. Vitamins,				
	Bronchodialators,				
	28.Drugs in ophthalmic				
	practice,				
	29.Antianginal,				
	Lithotriptic,				
	30.Antimalarial,				
19	Detailed Knowledge of	Identify, mention	Identification of	PPT	60
	Following Dravya with	and describe the	each drug and	Role model	
	respect to	Basonym of drug,	to cover the	Posters	
	1. Basonym of drug,	Main Synonyms	importance of	Field visit	
	2. Main Synonyms,	Regional Name	Basonym	Students seminar	
	3. Regional Name,	Botanical Name	Synonyms	group discussion	
	4. Botanical Name,	Family	Regional Name	group discussion	
	5. Family,	Classification of	Botanical name		
	6. Classification of	Dravya	Its morphology		
	Dravya (Gana) as	Morphology	for its		
	described in Charak	Useful parts	identification.		
	and Sushrut,	Phytoconstituents	Collection of		
	7. External	Rasa panchaka	the useful part,		
	morphology, Useful	Action on	its action on the		
	1 0.	Dosha, Dhatu, Mala,			
	parts,		roga and rogi .In visha		
	8. Important	Prayogarha vyadhi			
	phytoconstituents,	Amayikaprayoga	dravyas their		
	Rasa panchaka,	and Matra	shodana, its		
	9. Action on Dosha,	Vishishta yoga,	matra and		
	Dhatu, Mala,	Vishakta Lakshan	toxicity of the		
	10. Prayogarha vyadhi	Chikitsopachara	particular		
	(therapeutic	and Shodhana if	drugs.And their		
	indications),	required of all the	clinical		
	Amayikaprayoga	drugs as mentioned	applications.		
	and Matra	in the list.			
	(Therapeutic				
	administration and				
	Dose),				
	11. Vishishta yoga				
	(names of				
	important				
	formulations),				
	Vishakta Lakshan				
	(adverse effects),				
	12. Chikitsopachara				
	(remedial				
	measures) and				

	<u>,                                      </u>		
13. Shodhana (as			
required)			
1.Agaru,			
2.Haridradvaya, Patala,			
3.Pippali-Pippalimula,			
4.Amalaki, Jambu,			
5.Pushkarmoola,			
6.Aragvadha,			
Jeerakadvaya,			
7.Saireyaka, Arjuna,			
8.Arkadvaya,			
9.Kantakari, Shalaparni,			
10.Shallaki,			
11.Bakuchi, Karpura,			
12.Katuki,			
13.Shigru, Bharangi,			
14.Bhrungaraj,			
15.Kumkum Kesara, Talisa			
Patra,			
16.Tila, Bilva,			
17.Brahmi,			
18.Lavanga, Tvak,			
19.Ushira, Chitraka,			
20.Dadima,			
21.Manjishtha, Varahi,			
22. Varuna, Durva,			
23.Nagakeshara,			
24.Nimba,			
25. Vidari, Gokshura,			
26.Guduchi, Parpata,			
27.Pashanabheda,			
28. Agnimantha, Haritaki			
29.Hingu,			
30.Punarnava,			
31.Jatiphal,			
32.Rasona, Ardraka-Sunti			
33.Arjuna, Kalamegha			
34.Kampillaka,			
Sarivadvaya			
35.Sarpagandha,			
36.Asoka,			
37.Karkatakshringi,			
38.Shankhapushpi,			
39.Bhallataka,			
40.Kiratatikta,			
41.Shyonaka, Bibhitaka			
42.Bijak/ Vijaysar,			
43.Kushta, Trivrut			
44.Tulasi, Bruhati			
45.Chandanadvaya, Lodhra			
46.Madanaphala, Vacha			
47. Varahi,			
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	48.Dhataki, Maricha				
	49.Musta, Vasa				
	50. Vatsanabha, Eranda				
	51.Gambhari, Nirgundi				
	52.Palasha, Yastimadhu				
	53.Jatamansi, Yavani				
	54.Guggulu, Ahiphena,				
	55.Aragvadha, Rohitaka,				
	56.Kanchanara, Ativisha,				
	57.Shatavari, Kumari,				
	58.Kutaja,				
	59.Eladvayam,Vidanga,				
	60.Prishniparni, Apamarga,				
	61.Kapikacchu, Shalmali				
	62.Baladvayam, Khadira				
	63.Ashvagandha				
	64.Shirisha				
	65.Mandukaparni,				
	66.Rasna				
	67.Devadaru				
20	68.Kupilu  Brief Knowledge of	Identify, mention	Identification	PPt	35
20	_	with their	and to cover the	role modle	33
	following dravyas with		clinical		
	Respect to	Sanskrit Name,		posters	
	Sanskrit Name	Botanical Name,	application of	Field visit	
	• Botanical	Family,	the particular	Students seminar	
	Name	Samanya Swarupa	drug along with	group discussion	
	• Family,	Parts Used and	its merits and		
	• Habit	Indications	demerits.		
	(Samanya				
	Swarupa)				
	Parts Used and				
	Indications				
	1. Agastya, Jati,				
	2. Jayapala, Parasika				
	3. Parijata,				
	Amlavetasa,				
	4. Amra, Kadamba,				
	5. Kaidarya,				
	Parnayavani,				
	6. Parpataka,				
	Aparajita,				
	7. Ashvagol, Kankola,				
	8. Karanja, Patha,				
	9. Patola, Atasi,				
	10. Avartaki, Karira,				
	Pilu,				
	11. Karpasa, Plaksha,				
	Babbula,				
	12. Prasarani, Badara,				
	Kasha,				
	13. Bakula, Kasni,				

Priyangu,			
14. Kataka, Puga,			
Bijapoora,			
15. Putiha, Bola,			
Kebuka,			
16. Chakramarda,			
Kharjura,			
Rajika/Sarshapa			
17. Kitmari, Rohitaka,			
Chandrashura			
18. Saptachakra,			
Changeri, Koshataki,			
l '			
19. Chavya, Kulatha,			
Saral,			
20. Kumuda, Sarja,			
Chopachini,			
21. Shala, Danti,			
Kusmanda,			
22. Darbha, Lajjalu,			
Sharapunkha,			
23. Langali, Shatahwa,			
Dhanvayasa,			
24. Shati, Dhanyaka,			
Latakasturi,			
25. Draksha,			
Madayantika,			
Sringataka,			
26. Mahanimba,			
Svarnakshiri,			
Gandhaprasarini			
27. Tagara, Garjara,			
Markandika,			
28. Gojihva, Masha,			
Talmuli,			
29. Mashaparni,			
Taruni, Gunja,			
30. Tavakshira,			
Hinsapa,			
Mayaphala,			
31. Hinstra,			
Meshashrungi,			
Tuvaraka,			
32. Methika,			
Udumbara,			
Hrutpatri,			
33. Urana, Ikshu,			
Mulaka,			
34. Indravaruni, Murva,			
Vata,			
35. Nagabala, Vatada,			
Irimeda,			
1 111110000,	<u> </u>		

	36. Vrudhadaru, Ishvaku, Narikela, 37. Isvari, Nili, Japa, 38. Ajamoda, Kakamachi, Parushaka 39. Jeevanti, Parisha, Amragandhiharidra 40. Ashvattha, Karavellaka, Patranga 41. Avartani, Priyala, Kasamarda 42. Bhumyamalki, Katphala, Putranjivaka 43. Champaka, Kokilaksha, Saptaparna 44. Chirbilva, Shara, Kusha 45. Dattura, Latakaranja, Snuhi 46. Dronapushpi, Mandukaparni, Tailaparni 47. Gorakshaganja, Teja Patra, Matulunga 48. Hribera, Mudgaparni, Vamsha 49. Ingudi, Nala.				
	48. Hribera, Mudgaparni,				
	49. Ingudi, Nala, Vrukshamla				
	50. Padmaka				
	51. Palandu,				
	Akarkarabh,				
	52. Yavani, Kadali, 53. Parnabija, Ankola,				
	54. Kamala,				
	Patalagarudi,				
	55. Karavira,				
21	Asthishrunkhala,	Identify their	Indontification	DDT	2
21	Introduction, Guna, Karma and Uses of following	Identify, their morphology	Indentification Mode of	PPT Poster	2
	Jantava Dravya	Collection	Collection	presentation	
	(Drugs of Animal Origin).	Preservation	Uses	role modle	
	1. Kasturi	Rasa panchaka	Clinical		
	2. Gorochana	Uses.	applications		
22	3. Mrigasringa Introductory Knowledge of	Explain each varga.	To Cover the	PPT	3
	Following Annapana	Their properties,	properties and	industrial visit	3
	ronowing Annapana	i neir properties,	properties and	industrial visit	

	Varga: 1. Jala Varga 2. Dugdha Varga 3. Madhu Varga 4. Taila Varga 5. Sukadhanya Varga 6.Shamidhanya Varga 7. Phala Varga 8. Shaka Varga 9. Mamsa Varga 10. Aharayogi	Effects on Dosha,Dhatu and Mala with their clinical uses.	uses of each varga and their clinical applicability along with their merits and demerits.		
23	A Study of a. Macroscopic characters b. Microscopic characters c. Organoleptic characteristics d. Grahya - Agrahyata and e. Useful parts of following plants and their useful parts.  i. Kand (Stem) — Guduchi or Ashtishrinkhala ii. Patra (Leaves) — Vasa or Kumari iii. Pushpa (Flowers and its parts) iv.Phala (Fruit) — Maricha or madanaphala or vidanga v. Beeja (Seeds)- Eranda or Kapicchhu vi. Twak (Bark) — Kutaja or Arjuna or Ashwatta vii. Moola (Root) — Punarnava or chitraka. viii. Niryasa (Exudate) — Guggulu or Mocharasa. ixJangama dravya — Madhu or gritha	Explain the external features, transverse and longitudinal sections, identification of each drug by panchendriya along with their chemical constituents.	To overcome the substitutes and adulterants with identifying the genuine drug and to know about the standardization of the drug as per the guidelines.	SIS Field visit Group discussion Student seminar(Identific ation of drugs available dry/wet drugs)	80

### **Reference Books**

- 1. Abhinav Buti Darpan (Vol.1-2) Vd. Roop Lal Vaishya
- 2. Aushadna Vigyna Shastra Acharya Pt. Vishvanatha Dwidevi
- 3. Ayurvediya Aushadnkarma vigyana Acharya V.J. Thakur
- 4. Bedi Vanaspati Kosha Prof. Ramesh Bedi

- 5. Bhaishajyaguna Vigyana Dr. Alakhnarayan Singh
- 6. Bhav Prakash Nigantu (English) Shreekanthamurti
- 7. Bhav Prakash Nighantu With Vd. Krishna Chandra Chunekar commentary
- 8. Bhrinad dravyagunadarsha Mahendra Kumar Shastri
- 9. Classical Uses of Medicinal Plants Acharya Priyavrata Sharma
- 10. Controversial Medicinal Plants Vd. G. Bapa Lal
- 11.Dalhana Ka Dravyaguna Shastra Ke Kshetra Me Yogadana Vd. Shiv Kumar Vyas
- 12.Dravyaguna Kosha Acharya Priyavrata Sharma
- 13. Dravyaguna Sutram Acharya Priyavrata Sharma
- 14.Dravyaguna Vigyana Dr. Gyanendra Pandey
- 15.Dravyaguna Vigyana(Vol. 1-2) Acharya Yadavji Tikram Ji
- 16.Dravyaguna Vijyana Dr. V.M. Gogate
- 17. Dravyaguna Vigyana (Vol. 1-5) Acharya Priyavrata Sharma
- 18. Dravyaguna Shastrum Vaidya G.A. Phadake
- 19. Dravyaguna Vijyana Dr. A.P. Deshpande
- 20. Dravyagunavijnana basic Principles Prof. D.S. Lucas
- 21. Forgotten Healers (Indian Medicinal Plants) Dr. Prakash Pranjape
- 22.Glossry of Vegetable Drugs in Bhrittrayis Thakur Balwant Singh & Vd. Krishna Chandra Chunekar
- 23.Introduction to Dravyaguna Acharya Priyavrata Sharma
- 24.Kriyatamka Aushadi Parichaya Acharya Pt. Vishvanath Dwidevi
- 25. Materia Medica Acharya Ghosh
- 26. Nighantu Adarsh (Vol. 1-2) Vd. Bapa Lal
- 27. Pharmacological basis of Medical Practice Goodman & Gillman
- 28. Pharmacology and Pharmacotherapeutics Satoskar Bhandarkar & Ainapure
- 29. Prayogatamaka Dravyaguna Vigyana Dr. Maya Ram Uniyal
- 30. Priya nighantu Acharya Priyavrata Sharma
- 31.Raspanchaka/Dravyaguna Siddhanta Prof. Shivcharan Dhyani
- 32. System of Plant Nomenclature in Ayurveda Dr. Gyanendra Panday
- 33.Text Book of Pharmacognosy Trees & Valis
- 34.Textbook of Dravyaguna Dr.K.Nishteswar
- 35. Unani Dravyaguna Vigyana Hakim Daljeet Singh

#### Note:

Theory Two papers- 100 marks each Lectures-200 hrs Practicals-200 hrs Practical/Viva voce – 200 marks Total marks - 400

### Paper I

Part A - SI No:- 1-13 Part B - SI No:- 14-18

Paper II

SI No:- 19-22

Practicals - SI No: - 23-26