## Sub: Rasashastra & Bhaishajya Kalpana CO-PO Paper I - Rasashastra

Course Outcome			Prog	ram C	<b>)utco</b>	me	
1. History of Rasashastra	01	02	03	04	05	06	07
CO-1: Define the word Rasa and its etymology.	0	0	0	2	0	1	1
CO-2: Describe History of Rasashastra	0	0	0	2	0	1	1
CO-3: Describe importance of Rasaushadhi	3	2	2	3	3	3	3
2. Paribhasha prakaran & dravya varga	01	02	03	04	05	06	07
CO-1: Define Paribhasha with suitable example	2	2	2	3	2	2	2
CO-2: Describe Aavapa, Dhalana and Nirvapana	1	1	1	3	0	2	2
CO-3: Describe the term Madhurtranya, Lavanpanchak, Panchagvya and Panchamritika	1	1	1	3	0	2	2
CO-4: Describe Beejabhaga , Rudra bhaga ,Dhanvantari bhaga	1	1	1	3	0	2	2
3. Yantras and their uses	01	02	03	04	05	06	07
CO-1: Define Yantra with suitable example	2	2	2	3	2	2	2
CO-2: Describe Udukhala yantra and Khalwa yantra	1	1	1	3	0	2	2
CO-3: Describe Patan yantra, Damaru yantra and dola yantra	1	1	1	3	0	2	2
CO-4: Describe Palika yantra, Puta yantra, Valuka yantra	1	1	1	3	0	2	2
CO-5: Describe pH Meter and Electronic balance and its applicability	1	1	1	3	0	2	2
4. Musha	01	02	03	04	05	06	07
CO-1: Define Musha synonyms and its types.	1	1	1	3	1	2	2
CO-2: Describe constituents of Samanya musha	0	0	0	3	0	2	2
CO-3: Describe in brief about Gostani Moosha and Vajramoosha	0	0	0	3	0	2	2
CO-4: Describe in brief about Vrintaka musha & Pakwa musha	0	0	0	3	0	2	2
CO-5: Describein brief Modern form of Crucibles with its Application	0	0	0	3	0	2	2
5. Koshthi	01	02	03	04	05	06	07
CO-1: Define Koshthi and its types.	1	1	1	3	1	2	2
CO-2: Describe Angar Koshthi and Patala Koshthi with its applications.	0	0	0	3	0	2	2

CO-3: Describe Modern form of Koshthi with its applications	0	0	0	3	0	2	2
6. Puta	01	02	03	04	05	06	07
CO-1: Define Puta and its types.	1	1	1	3	1	2	2
CO-2: Describe uses and quantity of fuel used in Mahaputa	0	0	0	3	0	2	2
CO-3: Describe uses and quantity of fuel used in Gajputa	0	0	0	3	0	2	2
CO-4: Describe uses and quantity of fuel used in Lawakputa, Varahaputa and kukkutputa	0	0	0	3	0	2	2
CO-5 : Describe application of Electrical furnace in Ayurveda pharmaceutical industry	0	0	0	3	0	2	2
7. Description of Parada	01	02	03	04	05	06	07
CO-1: Define the term rasa and its synonyms.	1	1	1	3	1	2	2
CO-2: Describe sources and ores of mercury.	1	1	1	3	1	2	2
CO-3: Describe various types of Doshas and its effects	1	1	1	3	1	2	2
CO-4 : Describe characteristics of grahya & Agrahya Parad.	1	1	1	3	1	2	2
CO-5 : Describe samanya and vishesh shodhana of mercury.	1	1	1	3	1	2	2
CO-6 : Describe method of extraction of Parad from Hingula	1	1	1	3	1	2	2
8. Murchhana & Jarana of Parada	01	02	03	04	05	06	07
CO-1: Define Murchhana of Parad and its types	1	1	1	3	1	2	2
CO-2: Describe preparation, doses, and therauptic uses of Rasa Karpura, Rasa Pushpa	3	3	1	3	1	2	2
CO-3: Describe preparation, doses, and therauptic uses of Rasa Sindoor	3	3	1	3	1	2	2
CO-4 : Describe preparation, doses, and therauptic uses of Kajjali anf Rasaparpati	3	3	1	3	1	2	2
CO-5 : Describe preparation, doses, and therauptic uses of Tribhuvankirti ras , Sootasekhar ras	3	3	1	3	1	2	2
CO-6 : Describe Types and Purpose of Parad bandha	3	3	1	3	1	2	2
9. Description of Maharasa	01	02	03	04	05	06	07
CO-1: Describe Occurance, Synonyms, sources, varities, Grahyta & Agrahyta , shodhana, marana , satvapatna, properties , doses & therauptic uses of <i>Abhraka</i>	3	2	1	3	0	2	2
CO-2: Describe Occurance, Synonyms, sources,varities, Grahyta & Agrahyta, shodhana, marana, sa, properties, doses & therauptic uses of Vaikrant	3	2	1	3	0	2	2

CO-3: Describe Occurance, Synonyms, sources, varities, Grahyta & Agrahyta , shodhana,	3	2	1	3	0	2	2
marana , sa, properties , doses & therauptic uses of Makshika							
CO-4 : Describe Occurance, Synonyms,	3	2	1	3	0	2	2
sources, varities, Grahyta & Agrahyta , shodhana,							-
marana , sa, properties , doses & therauptic uses of							
Vimal							
CO-5 : Describe Occurance, Synonyms,	3	2	1	3	0	2	2
sources, varities, Grahyta & Agrahyta , shodhana,							
marana , sa, properties , doses & therauptic uses of Shilajeet							
CO-6 : Describe Occurance, Synonyms,	3	2	1	3	0	2	2
sources,varities, Grahyta & Agrahyta , shodhana,	5	Z	1	5	U	2	2
marana , sa, properties , doses & therauptic uses of							
Sasyaka							
CO-7 : Describe Occurance, Synonyms,	3	2	1	3	0	2	2
sources,varities, Grahyta & Agrahyta , shodhana,		-	-	•	•	1	-
marana , sa, properties , doses & therauptic uses of							
Chapala & Rasak							
CO-8 : Describe Physical properties of Maharas	3	2	1	3	0	2	2
CO-9 : Describe Minerological identification of	3	2	1	3	0	2	2
Maharasa	•	_		•	•		_
9. Description of Uparasa	01	02	03	04	05	06	07
CO-1: Describe Occurance, Synonyms, sources, varities,	3	2	1	3	0	2	2
Grahyta & Agrahyta , shodhana, , properties , doses &		-	-	•	•	-	-
therauptic uses of Gandhaka							
CO-2: Describe Occurance, Synonyms,	3	2	1	3	0	2	2
sources, varities, Grahyta & Agrahyta , shodhana, doses	5	2	1	5	U	2	2
& therauptic uses of <i>Gairika</i>							
CO-3: Describe Occurance, Synonyms,	3	2	1	3	0	2	2
sources,varities, Grahyta & Agrahyta , shodhana,					_		
marana , properties , doses & therauptic uses of Kasis							
CO-4 : Describe Occurance, Synonyms,	3	2	1	3	0	2	2
sources,varities, Grahyta & Agrahyta , shodhana,							
properties , doses & therauptic uses of Kankshi							
	3	2	1	3	0	2	2
CO-5 : Describe Occurance, Synonyms,	5				1		
sources, varities, Grahyta & Agrahyta , shodhana,							
sources,varities, Grahyta & Agrahyta , shodhana, marana, properties , doses & therauptic uses of							
sources,varities, Grahyta & Agrahyta , shodhana, marana, properties , doses & therauptic uses of Hartala		2	1	2	0	2	2
sources, varities, Grahyta & Agrahyta , shodhana, marana, properties , doses & therauptic uses of Hartala CO-6 : Describe Occurance, Synonyms,	3	2	1	3	0	2	2
sources,varities, Grahyta & Agrahyta , shodhana, marana, properties , doses & therauptic uses of Hartala		2	1	3	0	2	2

CO-7 : Describe Occurance, Synonyms, sources,varities, Grahyta & Agrahyta , shodhana, marana , sa, properties , doses & therauptic uses of	3	2	1	3	0	2	2
anjana & Kankustha							
CO-8 : Describe Physical properties of Uparas	3	2	1	3	0	2	2
CO-9 : Describe Minerological identification of Uparasa	3	2	1	3	0	2	2
Description of Sadharan Rasa	01	02	03	04	05	06	07
CO-1: Describe Occurance, Synonyms, sources, varities, Grahyta & Agrahyta, shodhana, , properties, doses & therauptic uses of <i>Kampillaka</i>	3	2	1	3	0	2	2
CO-2: Describe Occurance, Synonyms, sources,varities, Grahyta & Agrahyta , shodhana, doses & therauptic uses of <i>Gauripashan</i>	3	2	1	3	0	2	2
CO-3: Describe Occurance, Synonyms, sources,varities, Grahyta & Agrahyta , shodhana, marana , properties , doses & therauptic uses of <i>Kaparda</i>	3	2	1	3	0	2	2
CO-4 : Describe Occurance, Synonyms, sources,varities, Grahyta & Agrahyta , shodhana, properties , doses & therauptic uses of <i>Navasadar</i>	3	2	1	3	0	2	2
CO-5 : Describe Occurance, Synonyms, sources,varities, Grahyta & Agrahyta, shodhana, marana, properties, doses & therauptic uses of Agnijar	3	2	1	3	0	2	2
CO-6 : Describe Occurance, Synonyms, sources,varities, Grahyta & Agrahyta , shodhana, marana , sa, properties , doses & therauptic uses of <i>Girisindura</i>	3	2	1	3	0	2	2
CO-7 : Describe Occurance, Synonyms, sources,varities, Grahyta & Agrahyta , shodhana, marana , sa, properties , doses & therauptic uses of Hingula	3	2	1	3	0	2	2
CO-8 : Describe Physical properties of Sadharan rasa	3	2	1	3	0	2	2
CO-9 : Describe Minerological identification of Sadharan rasa	3	2	1	3	0	2	2
10. Sudha Varga Dravya	01	02	03	04	05	06	07
CO-1: Describe Source, origin and chemical composition, synonyms, pharmacological properties, Shodhana, marana, doses & therauptic uses of Godanti	3	2	1	3	0	2	2
CO-2: Describe Source, origin and chemical composition, synonyms, pharmacological properties, Shodhana, marana, doses & therauptic uses of Shukti	3	2	1	3	0	2	2

CO-3: Describe Synonyms, sources, varieties, Grahyta & Agrahyta , shodhana, marana , properties , doses & therauptic uses of Shankha	3	2	1	3	0	2	2
CO-4 : Describe Occurance, Synonyms, sources, varieties, Grahyta & Agrahyta , shodhana, properties , doses & therauptic uses of <i>Kukkutanda twak</i>	3	2	1	3	0	2	2
CO-5 : Describe Physical properties of <i>sudhavarga dravya</i>	3	2	1	3	0	2	2
11. Sikhata Varga Dravya	01	02	03	04	05	06	07
CO-1: Describe Shodhana, marana, dose, use & indications of <i>Sikhata</i> , Dugdhapashana	1	1	0	3	0	2	2
CO-2: Describe Shodhana, marana, dose, use & indications of Vyomashama, & Sange Yeshab	1	1	0	3	0	2	2
CO-3: Describe Shodhana, marana, dose, use & indications of Jaharmohara	1	1	0	3	0	2	2
CO-4 : Describe Shodhana, marana, dose, use & indications of Kousheyasham & Akik	1	1	0	3	0	2	2
12. Kshara Varga Dravya							
CO-1: Describe Source, origin and chemical composition, synonyms, physical properties, pharmacological properties, dose, use of <i>Sarja kshara</i>	3	2	1	3	0	2	2
CO-2: Describe Source, origin and chemical composition, synonyms, physical properties, pharmacological properties, dose, use of <i>Yava Kshara</i>	3	2	1	3	0	2	2
13. Miscellinous drugs	01	02	03	04	05	06	07
CO-1: Describe Occurance, Synonyms,Natural & artificial sources,varities, Grahyta & Agrahyta, properties, dose & therapeutic use of Bola & Krishna Bola	1	1	0	3	0	2	2
CO-2: Describe Occurance, Synonyms,Natural & artificial sources,varities, Grahyta & Agrahyta, properties, dose & therapeutic use of Mayurpiccha & Madhucchishta	1	1	0	3	0	2	2
CO-3: Describe Occurance, Synonyms,Natural & artificial sources,varities, Grahyta & Agrahyta, properties, dose & therapeutic use of Kasturi & Bhoonag	1	1	0	3	0	2	2

14. Dhatu	01	02	03	04	05	06	07
CO-1: Define Dhatu and Updhatu	1	1	1	3	0	2	2
CO -2: Define the concept of Suddha lauha, Puti Lauha & Mishralauha	1	1	1	3	0	2	2
CO -3 Describe Varieties, pharmacological properties, source, types, shodhana, marana, doses ,therauptic properties, vishisht yog of Suddha Lauha	3	3	1	3	0	2	2
CO -4 Describe Varieties, pharmacological properties, source, types, shodhana, marana, doses ,therauptic properties, vishisht yog of Puti Lauha	3	3	1	3	0	2	2
CO -5 Describe Varieties, pharmacological properties, source, types, shodhana, marana, doses ,therauptic properties, vishisht yog of Mishra Lauha	3	3	1	3	0	2	2
CO -6 Describe Physical properties of Dhatu, Upadhatu	3	3	1	3	0	2	2
CO -7 Describe Chemical properties of Dhatu, Upadhatu	3	3	1	3	0	2	2
15. Ratnas & Uparatnas	01	02	03	04	05	06	07
CO-1: Define the term Ratna and their relationship with Grahas	1	1	1	3	0	2	2
CO -2: Describe Doshas of Ratnas	1	1	1	3	0	2	2
CO3 : Describe Varities, Synonyms, General method for Shodhana and Marana, properties, dose, therauptic uses & vishishta yog of <i>Manikya</i>	3	3	1	3	0	2	2
CO4 : Describe Varities, Synonyms, General method for Shodhana and Marana, properties, dose, therauptic uses & vishishta yog of <i>Mukta</i>	3	3	1	3	0	2	2
CO5 : Describe Varities, Synonyms, General method for Shodhana and Marana, properties, dose, therauptic uses & vishishta yog of Praval	3	3	1	3	0	2	2
CO6 : Describe Varities, Synonyms, General method for Shodhana and Marana, properties, dose, therauptic uses & vishishta yog of <i>Tarkshya</i>	3	3	1	3	0	2	2
CO7 : Describe Varities, Synonyms, General method for Shodhana and Marana, properties, dose, therauptic uses & vishishta yog of <i>Pushparag</i>	3	3	1	3	0	2	2
CO8 : Describe Varities, Synonyms, General method for Shodhana and Marana, properties, dose, therauptic uses & vishishta yog of <i>Vajra</i> <i>CO -9 Describe Physical properties of Ratna, Uparatna</i>	3	3	1	3	0	2	2

CO -10 Describe Chemical properties of Ratna, Uparatna	3	3	1	3	0	2	2
16. Visha and Upavisha	01	02	03	04	05	06	07
CO-1: Describe the classification and synonyms of visha & upvisha	1	1	1	3	0	2	2
CO -2: Describe Shodhana Antidotes, uses, therapeutic & toxic doses and formulations of Visha & Upvisha	3	3	1	3	0	2	2
CO- 3 : Describe Physical properties of Visha , Upavisha	3	3	1	3	0	2	2
CO- 4 : Describe Chemical Composition of Visha, Upavisha							
17. Aushadhi Yoga Gyanam	01	02	03	04	05	06	07
CO-1: Describe Ingredients,Method of Preparation,Dose & Therapeutic uses of – Arogyavardhini Gutika & Chandraprabha gutika	3	3	1	3	0	2	2
CO-2: Describe Ingredients,Method of Preparation,Dose & Therapeutic uses of Karpura Rasa & Kasturi Bharava rasa	3	3	1	3	0	2	2
CO-3: Describe Ingredients,Method of Preparation,Dose & Therapeutic uses of Kumar Kalyana Rasa & Garbhapala rasa	3	3	1	3	0	2	2
CO-4: Describe Ingredients,Method of Preparation,Dose & Therapeutic uses of Chandramrit rasa, Hinguleshwar rasa & Anand bhairava rasa	3	3	1	3	0	2	2
CO-5: Describe Ingredients,Method of Preparation,Dose & Therapeutic uses of PravalaPanchamrit rasa, Shankha vati, Kamdhudha rasa and Laghusutsekhar rasa.	3	3	1	3	0	2	2
CO-6: Describe Ingredients,Method of Preparation,Dose & Therapeutic uses of Yogendra rasa	3	3	1	3	0	2	2
CO-7: Describe Ingredients,Method of Preparation,Dose & Therapeutic uses of Laxmivilasa rasa	3	3	1	3	0	2	2
CO-8: Describe Ingredients,Method of Preparation,Dose & Therapeutic uses of Vasant Kusumakar rasa, Vasant malti rasa	3	3	1	3	0	2	2
CO-9: Describe Ingredients, Method of Preparation, Dose & Therapeutic uses of Vatakulantaka rasa and Vatavidhvamsan rasa.	3	3	1	3	0	2	2
CO-10: Describe Ingredients,Method of Preparation,Dose & Therapeutic uses of Swasakuthar rasa	3	3	1	3	0	2	2

CO-11: Describe Ingredients, Method of	3	3	1	3	0	2	2
Preparation, Dose & Therapeutic uses of							
Swarnavanga, Makardhwaja							
CO-12: Describe Ingredients, Method of	3	3	1	3	0	2	2
Preparation, Dose & Therapeutic uses of Brihat vata							
Chintamani rasa and Hridarnava rasa							
CO-13: Describe Ingredients, Method of	3	3	1	3	0	2	2
Preparation, Dose & Therapeutic uses of Navayasa							
loha,Saptamrita loha							
CO-14: Describe Pharmacopeal Standards of the	1	1	0	3	0	2	2
Ayurvedic Formulations				_			
18. Brief knowledge of Standardization of	01	02	03	04	05	06	07
Rasaushadhi							
CO-1: Describe the methods of Standardization of	2	2	0	3	0	3	3
Rasaushadhi							
<b>19.</b> Concept of pharmacovigilience							
CO-1: Describe the Concept of pharmacovigilience and	3	3	3	3	1	3	3
its importance	-	-		-		-	-
20. Mineralogical Identification							
CO-1: Describe Mineralogical Identification of rasa	2	2	0	3	0	3	3
drugs			-	-	-	-	-
21.Concept of Nano-Technology in Ayurveda							
CO-1: Describe Concept of Nano-Technology in	2	2	0	3	0	3	3
Ayurveda			-	-	-	-	-