



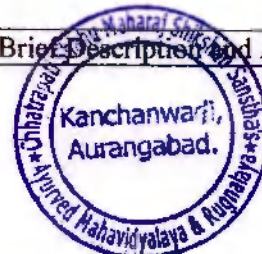
Chhatrapati Shahu Maharaj Shikshan Sanstha's  
**Ayurved Mahavidyalaya & Rugnalaya,**  
Kanchanwadi, Aurangabad.



Department: RASASHASTRA & BHAISHAJYA KALPANA  
**Annual Teaching Plan (ATP)**

**Batch: Achwale Batch (2021-2022)**

Course: 2 <sup>nd</sup> B.A.M.S.			Term: First Term			
Year: 2021-2022			Paper: First Paper			
THEORY CLASS						
S.N.	Name of Teacher	Syllabus Point	Description of Syllabus	Approximate No. of Lectures	Approximate Total No. of Lectures	Mode Of Teaching
1)	Dr. Dahake S. J.	Part-A Point:1	History and Chronological (kramika vikasa) development of Bhaishajyakalpna. Concept of Aushadha and Bheshaja.	02	23	PPT/Chalk Board /Video/Chart/ Demo
	Dr. Dahake S. J.	Part-A Point:7	Concept, definition and types of Puta: Suryaputa, Chandraputa, Gomayaputa, Lawakaputa, Kukkutaputa, Kapotaputa, Varahaputa, Gajaputa, Mahaputa, Kumbhaputa, Valukaputa, Bhudharaputa, Applications of Electric muffle furnace and fuel (diesel) dependent furnace. Brief introduction to thermocouple and pyrometer.	10		PPT/Chalk Board /Video/Chart/ Demo
	Dr. Dahake S. J.	Part-A Point:9	Concept of Murchhana and Jarana of Parada, Preparation of Kajjali, Classification of Rasaushadhi: Khalvi rasa e.g. Tribhuvana Keerti Rasa, Parpati Rasa- Rasa Parpati, Kupipakva Rasa- Rasa sindur, Pottali rasa - Hemagarbha pottali. Rasa sevana vidhi and pathya and apathya.	11		PPT/Chalk Board /Video/Chart/ Demo
2)	Dr. Hirekar S. N.	Part-A Point:2	Brief Description and Application of	02	12	PPT/Chalk



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			Technical terminologies (Paribhasha): Avapa, Nirvapa, Dhalana, Bhavana, Jarana, Murchana, Shodhana, Marana, Amrutikarana, Lohitikarana, Mruta Loha, Satwa Patana, Druti, Apunarbhava, Niruttha, Rekhapurna, Varitara.		Board /Video/Chart/ Demo
	<b>Dr. Hirekar S. N.</b>	<b>Part-A Point:3</b>	Dravya Varga: Amlavarga, Panchamrittika, Panchagavya, Panchamrita, Ksharashtaka, Dravakagana, Mitra panchaka, Rakta varga, Lavanapanchaka.	01	PPT/Chalk Board /Video/Chart/ Demo
	<b>Dr. Hirekar S. N.</b>	<b>Part-A Point:4</b>	Brief description of Yantras and their application Ulukhala Yantra, Khalwa Yantra, Kachhapa Yantra, Damaru Yantra - Vidhyadhara Yantra- Urdhwapatan, Addhapatan & Tiryakpatana Yantra, Jaranartha Tulayantra, Dolayantra, Patalayantra, Palika Yantra, Baluka Yantra, Bhudhara Yantra, Sthali Yantra, Swedana Yantra.	03	PPT/Chalk Board /Video/Chart/ Demo
	<b>Dr. Hirekar S. N.</b>	<b>Part-A Point:5</b>	Brief description & application of Musha (Crucible): Samanya Musha, Gostani musha, Vajra Musha, Maha musha, Yoga musha, Vrintaka Musha, Malla / Pakwa musha. Different types of crucibles e.g. Silica crucible, platinum crucible. Mudra and Sandhi Bandhana.	03	PPT/Chalk Board /Video/Chart/ Demo
	<b>Dr. Hirekar S. N.</b>	<b>Part-A Point:6</b>	Brief description & applications of Chullika, Satwapatana Koshthi, Patala Koshthi, Gara Koshthi, Angarakoshthi and knowledge of various heating appliances viz. Gas stove, Hot plate, Heating mantle, Induction Stove, Hot Air Oven.	03	PPT/Chalk Board /Video/Chart/ Demo



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3)	<b>Dr. Dhawali T. S.</b>	<b>Part-A Point:8</b>	Knowledge of Parada: Synonyms, Occurrence, natural and artificial sources of Parada, Hingulottha parada, Types of Parada, Parada Dosh: Naisargika, Yougika, Aupadhika (Kanchuka). Grahya-Agrahya Parada, Parada gati, Parada bandha, Shodhana of Parada. Parada sanskara and brief description of Ashtasamskara.	08	<b>10</b>	PPT/Chalk Board /Video/Chart/ Demo
	<b>Dr. Dhawali T. S.</b>	<b>Part-A Point:10</b>	Brief introduction of quality control, standardization and GMP of Rasaoushadhies.	02		PPT/Chalk Board /Video/Chart/ Demo



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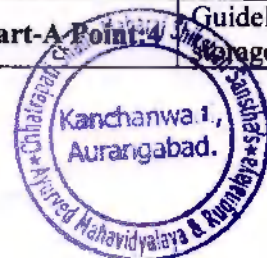
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1)	Dr. Dahake S. J.	Part-A Point:1	History and Chronological (kramika vikasa) development of Bhaishajyakalpna. Concept of Aushadha and Bheshaja.	03	22	PPT/Chalk Board /Video/Chart/ Demo
	Dr. Dahake S. J.	Part-A Point:9	Sandhana Kalpana and its types: Madya Kalpana, Asava, Arishta, Sura (Prasanna - Kadambari - Medaka - Jagala - Bakkasa), Maireya, Surasava, Shukta, Kanjika, Sauviraka, Tushodaka, Sidhu kalpana their methods of preparation, siddhi lakshana, properties, uses, doses. Takrarishta, Draksharishta, Ashokarishta, Dashamoolarishta, Kumaryasava, Chandanasava.	19		PPT/Chalk Board /Video/Chart/ Demo
2)	Dr. Hirekar S. N.	Part-A Point:3	Study of Ancient and Contemporary systems of 'Maana' (Units of measurement), Shushka -ardra -drava- dravya grahan niyam (Rules of measures of dry, fresh, liquid drugs); Grahyagrahyatva, Nava Puran dravya grahan niyam	04	08	PPT/Chalk Board /Video/Chart/ Demo
	Dr. Hirekar S. N.	Part-A Point:4	Guidelines and Methods of collection, storage, preservation of Aushadhi dravya.	02		PPT/Chalk Board



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			Concept of Saviryatavadi (shelf life) and stability in ancient and contemporary science.			/Video/Chart/ Demo
	<b>Dr. Hirekar S. N.</b>	<b>Part-A Point:5</b>	Bheshajprayogavidhi: Aushadha Matra, Anupana and sahapan and Aushadh sevan kaala. (Posology).	02		PPT/Chalk Board /Video/Chart/ Demo
3)	<b>Dr. Dhawali T. S.</b>	<b>Part-A Point:2</b>	Fundamental principles of Bhaishajya Kalpana.	03		PPT/Chalk Board /Video/Chart/ Demo
	<b>Dr. Dhawali T. S.</b>	<b>Part-A Point:7</b>	Introduction and general knowledge of useful instruments/ Equipments -Disintegrator, Mixer, Grinder, End Runner, Edge Runner, Sieve-Shaker, Granulator, Tableting machine, Pill making machines, coating and polishing pan, capsule filling machine, sieves and mesh.	10		PPT/Chalk Board /Video/Chart/ Demo
	<b>Dr. Dhawali T. S.</b>	<b>Part-A Point:8</b>	Sneha kalpana: Sneha yoni, Types of Sneha, Sneha murchana vidhi, Sneha paka vidhi, patra paka, types and their use. Sneha siddhi lakshana, dose, Preparation and uses of Triphala Ghrita, Bramhighrita, Narayana taila, Anutaila.	10	<b>35</b>	PPT/Chalk Board /Video/Chart/ Demo
	<b>Dr. Dhawali T. S.</b>	<b>Part-A Point:10</b>	Kritanna and Aushadhisiddha anna Kalpana: Definition of Kritanna, Concept of Pathya and Apathya, Yavagu –types of yavagu, Manda, Peya, Vilepi, Anna, Bhakta, Odan, Yush - types, Krishara, Mansa rasa, Vesavara, Khad Kamblika, Raga, Shadava, Dadhi and Takra Varga – Takra, Udasvita, Katvar, Mathita,	12		PPT/Chalk Board /Video/Chart/ Demo



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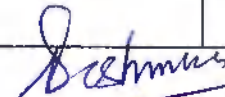


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PRACTICAL CLASS					
S.N.	Name of Teacher	Name of Practical	Approximate Total No. of Practicals	Approximate Total No. of Practical Hours	Mode Of Teaching
1)	Dr. Hirekar S. N.	<b>(Bhaishajya Kalpana Practicals)</b> <ul style="list-style-type: none"><li>• Swarasa- Ardraka swarasa, Tulasi swarasa, Vasa putapaka swarasa</li><li>• Kalka- Nimba kalka, Rasona kalka.</li><li>• Kwatha- Punarnavasthaka kwatha, Rasna Sapthaka kwatha, Kulattha kwath.</li><li>• Hima- Dhanyaka hima, Sarivadi hima .</li><li>• Phanta- Panchakola phanta, Yastimadhu Phanta.</li><li>• Pramathya- Mustadi pramathya</li><li>• Mantha- Kharjuradi mantha</li><li>• Aushadh siddha paniya- Shadanga paniya</li><li>• Laksha Rasa.</li><li>• Arka - Yavani arka, Gulab arka, Misreya arka</li><li>• Panaka- Chinch panaka, Chandan panaka.</li><li>• Sharkara- Banapsha sharkara, Nimbu sarkara.</li><li>• Churna- Sitopaladi Churna, Hinguwashataka Churna.</li><li>• Gutika- Chitrakadi Gutika, Sanjivani Vati.</li><li>• Guggulu-Triphala Guggulu, Kaishora Guggulu.</li><li>• Avaleha- Chyavanaprashavaleha.</li></ul>	18	60	Demo/ PPT/Chalk Board /Chart.
2)	Dr. Dhawali T. S.	<b>(Rasashastra Practicals)</b> <ul style="list-style-type: none"><li>• Samanya Shodhana of Parada</li></ul>	17	60	Demo/ PPT/Chalk Board /Chart.



  
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		<ul style="list-style-type: none"><li>• Kajjali</li><li>• Mugdha rasa</li><li>• Shankha Shodhana</li><li>• Shauktik Shodhana</li><li>• Kapardik Shodhana</li><li>• Godanti Shodhana</li><li>• Shodhana of Abhraka</li><li>• Dhanyabhrak Nirman</li><li>• Shodhan of Kasis</li><li>• Shodhana of Makshika</li><li>• Shodhana of Shilajatu</li><li>• Shodhana of Gandhaka</li><li>• Shodhana of Kankshi</li><li>• Shodhana of Haratala</li><li>• Shodana of Manashila</li><li>• Rasa manikya nirman</li></ul>			
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1)	Dr. Dahake S. J.	Part-B Point:1	Maharasa –Abhraka (Biotite Mica), Vaikrantha, Makshika (Chalco-pyrite), Vimala (Iron Pyrite), Shilajatu, Sasyaka (Peacock ore), Chapala and Rasaka (Sphalerite).	06	25	PPT/Chalk Board /Video/Chart/ Demo
	Dr. Dahake S. J.	Part-B Point:10	Miscellaneous - Mandura, Bola, Dam-ul Akhawayan (Raktabandhini), Kasturi, Bhoonag, Mayurpiccha, Sarjarasa, Madhocchishta.	04		PPT/Chalk Board /Video/Chart/ Demo
	Dr. Dahake S. J.	Part-B Point:12	Aushadhi Yoga Gyanam- ingredients, manufacturing process, and bhashajprayogvidhi. Arogya Vardhini Gutika, Kasturibhairava Rasa, Kumara Kalyana Rasa, Garbhapala Rasa, Chandraprabha Vati, Chandramrita Rasa, Pratapalankeshwara Rasa, Pravalanchamrita Rasa, Anandbhairava Rasa, Yogendra Rasa, Laxmivilas Rasa, Vasantakusumakara, Vasantamalati Rasa, Brihat Vata Chintamani Rasa, Shankha vati, Shwaskuthara Rasa, Hinguleswara Rasa, Hemagarbhapottali, Hridayarna Rasa, Swarnavanga, Makaradhwaja,	15		PPT/Chalk Board /Video/Chart/ Demo



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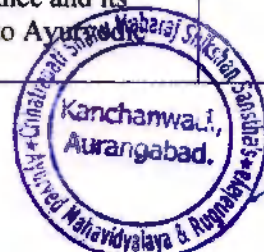


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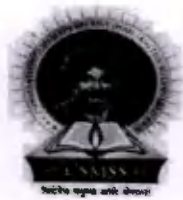
			Putapakwavaisham Jwarantaka Loha, Vatvidhvamsan Rasa, Kamadugha Rasa, Laghusutshekhar Rasa, Navayasa Loha, Saptamrita Loha, Tamra Parpati, Panchamrita Parpati, Sveta Parpati.			
2)	Dr. Hirekar S. N.	Part-B Point:2	Uparasa – Gandhaka (Sulfur), Gairika (Red Ochre), Kasisa (Green Vitriol), Kankshi (Alum), Haratala (Orpiment), Manahshila (Realgar), Anjana and Kankustha.	03	15	PPT/Chalk Board /Video/Chart/ Demo
	Dr. Hirekar S. N.	Part-B Point:4	Dhatu -Swarna (Gold), Rajata (Silver), Tamra (Copper), Loha (Iron), Vanga (Tin), Naga (Lead), Yashada (Zinc), Kamsya (Bronze), Pittala (Brass), Vartaloha. Dhatu -graha sambandha.	03		PPT/Chalk Board /Video/Chart/ Demo
	Dr. Hirekar S. N.	Part-B Point:7	Sudha varga – Sudha (Lime stone ), Kaparda (Cowries), Shukti (Oyster Shell) , Shankh (Conch Shell), Mriga shringa (Stag horn), Khatika, Godanti (Gypsum) and Samudraphena (Cattle Fish bone), Kukkutanda twak (Hen's Egg Shell).	03		PPT/Chalk Board /Video/Chart/ Demo
	Dr. Hirekar S. N.	Part-B Point:8	Sikata varga - Sikata (Silica), Dugdhapashana (Talc), Nagapashana / Jaharmohara (Serpentine), Badarshama (silicate of lime), Vyomashma (Sangeyashab - Jade), Kousheyashma (Asbestos) and Akika (Agate).	02		PPT/Chalk Board /Video/Chart/ Demo
	Dr. Hirekar S. N.	Part-B Point:9	Kshara varga - Sarja kshara (Sodium bicarbonate), Yava kshara, Tankana kshara (Borax), Surya Kshara (Potassium Nitrate).	02		PPT/Chalk Board /Video/Chart/ Demo
	Dr. Hirekar S. N.	Part-B Point:13	Introduction to pharamcovigilance and its status in India, with reference to Ayurvedic drugs.	02		



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			A) Necessary to know – From part A and B : S. No. 1 to 9 B) Desired to know – From part B : S. No. 10			
3)	Dr. Dhawali T. S.	Part-B Point:3	Sadharana Rasa – Kampillaka, Gauri pashana (Arsenic oxide), Navasadara (Ammonium chloride), Kaparda (Cowry), Agnijara, Giri Sindura (Red oxide of Hg), Hingula (Red Cinnabar) and Mriddara shringa (Litharge).	06	25	PPT/Chalk Board /Video/Chart/ Demo
	Dr. Dhawali T. S.	Part-B Point:5	Ratna - Manikya (Ruby), Mukta (Pearl), Pravala (Coral), Tarkshya (Emerald), Pushparaga (Topaz), Vajra (Diamond), Nilam (Sapphire), Gomeda (Zircon or Cinnamone stone), Vaidurya (Cats eye). Ratnapariksha, Ratnadosha, Ratna-graha sambandha.	06		PPT/Chalk Board /Video/Chart/ Demo
	Dr. Dhawali T. S.	Part-B Point:6	Uparatna- Vaikranta (Tourmaline), Suryakanta (Sun stone), Chandrakanta (Moon stone), Rajavarta (Lapis lazuli), Perojaka (Turquoise), Sphatikamani (Quartz), Trinakanta, Palanka, Putika, Rudhir.	06		PPT/Chalk Board /Video/Chart/ Demo
	Dr. Dhawali T. S.	Part-B Point:11	Visha and Upavisha-Introduction, collection and storage, classification, synonyms, shodhana, antidote, therapeutic and toxic doses, anupan, therapeutic uses, and formulations of following Visha and Upavisha-Vatsanabha, Kuchala, Jayapala, Dhattura, Bhanga, Bhallataka, Gunja, Arka, Snuhi. Langali, Karaveera, Ahiphena and Chitrakmool.	07		PPT/Chalk Board /Video/Chart/ Demo



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1)	Dr. Dahake S. J.	Part-B Point:2.4	Mukhaprayogarth kalpana - Gandoosha - Kavala - Pratisaran, Tooth paste, Tooth powders and Mouth wash.	08	20	PPT/Chalk Board /Video/Chart/ Demo
	Dr. Dahake S. J.	Part-B Point:2.5	Basti kalpana- Classification, Method of preparation of Niruha and Anuvasana, Basti Therapeutic properties and uses of Basti.	08		PPT/Chalk Board /Video/Chart/ Demo
	Dr. Dahake S. J.	Part-B Point:5	Concept of, Aushadhi Nirmanshala, with respect to Good Manufacturing Practices (GMP) in accordance to Schedule T.	04		PPT/Chalk Board /Video/Chart/ Demo
2)	Dr. Hirekar S. N.	Part-B Point:1	Bahyopacharartha kalpana (External Applications)-Lepa -Types of Lepa, methods of preparation and mode of application. Udvartan and Avachurnan, Method of preparation of Siktha Taila, Malahara – Sarjarasa Malahara, Gandhak Malahara, Upanaha, Atasi upanaha, Shatadhouta and Sahastradhouta Ghrita. Brief introduction of semi solid dosage forms- Ointments, Creams, Emulsions, Gels, Lotions.	06	10	PPT/Chalk Board /Video/Chart/ Demo



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	Dr. Hirekar S. N.	Part-B Point:3	Brief knowledge of Standardization of Ayurvedic formulations- Kasthanushadhi.	04		PPT/Chalk Board /Video/Chart/ Demo
3)	Dr. Dhawali T. S.	Part-B Point:2.1	Netraupacharartha kalpana (Ophthalmic preparations) – Seka, Drava, Pindi, Anjana - Ashchyotana - Tarpana - Putapaka and Vidalaka, Methods of preparation of eye drops, eye ointments.	06	20	PPT/Chalk Board /Video/Chart/ Demo
	Dr. Dhawali T. S.	Part-B Point:2.2	Nasyopachararth Kalpana - Classification of Nasya, Navana, Avapidana, Pradhaman, Marsha and Pratimarsha nasya.	06		PPT/Chalk Board /Video/Chart/ Demo
	Dr. Dhawali T. S.	Part-B Point:2.3	Dhumapanarth kalpana - Classification of dhumpaana, Method of preparation of dhumvarti and it's therapeutic uses. Dhupan: Vranadhupan, arshodhupan.	05		PPT/Chalk Board /Video/Chart/ Demo
	Dr. Dhawali T. S.	Part-B Point:4	Brief introduction of Drug and Cosmetics Act 1940 and Rules 1945.	03		PPT/Chalk Board /Video/Chart/ Demo



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PRACTICAL CLASS					
S.N.	Name of Teacher	Name of Practical	Approximate Total No. of Practicals	Approximate Total No. of Practical Hours	Mode Of Teaching
1)	Dr. Hirekar S. N.	<p>(Bhaishajya Kalpana Practicals)</p> <ul style="list-style-type: none"><li>• Rasa kriya - Guduchi Ghana</li><li>• Khanda- Haridra khanda, Narikela khanda</li><li>• Satva- Amruta satva</li><li>• Lavana- Arka lavana, Narikela lavana</li><li>• Masi- Triphala masi</li><li>• Ksheerapaka- Arjuna ksheerapaka, Rasona ksheerapaka, Shunthi Ksheerapaka</li><li>• Kshara- Apamarga kshara</li><li>• Manda, Peya, Vilepi, Yavagu, Krishra, Vesavara.</li><li>• Yusha - Mudga yusha, Kulattha yusha</li><li>• Aristha- Takrarishta .</li><li>• Asava – Kumaryasava</li><li>• Udaka- Tandulodaka</li><li>• Upanaha- Atasi Upanaha</li><li>• Siktha Taila Nirmaan</li><li>• Malahara- Sarjarasa malahara, Gandaka malahara.</li><li>• Sneha Murchhana - Ghrita Murchhana, Taila Moorchhana</li><li>• Triphala ghrita</li><li>• Taila, Bala taila, Jatyadi taila</li><li>• Taila patana- Bhallataka taila patana,</li></ul>	20	60	Demo/ PPT/Chalk Board /Chart.



PRINCIPAL

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Department: **RASASHASTRA & BHAISHAJYA KALPANA**  
**Annual Teaching Plan (ATP)**

		<ul style="list-style-type: none"><li>• Shodhana- Guggulu, Hingu.</li></ul>			
		<p style="text-align: center;"><b>(Rasashastra Practicals)</b></p> <ul style="list-style-type: none"><li>• Shodhana of Hingula</li><li>• Shodhan of Abhraka</li><li>• Shodhan of Sasyak</li><li>• Sodhana of Navasadar</li><li>• Samanya Shodhana of Lauha</li><li>• Shodhana of Tamra</li><li>• Shodhana of Mandura Samanya</li><li>• Shodhana of Vanga</li><li>• Shodhanof Yashad</li><li>• Shodhana of Tankana</li><li>• Preparation of Rasaparpati</li><li>• Swetaparpati Preparation</li><li>• Visha varga, Shodhana of Vatsanabha,</li><li>• Shodhana of Kupilu</li><li>• Shodhana of Jayapala</li><li>• Shodhana of Gunja,</li></ul>			
2)	<b>Dr. Dhawali T. S.</b>		<b>16</b>	<b>60</b>	Demo/ PPT/Chalk Board /Chart.



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**PRINCIPAL**