



Estb : 1989
NCISM College Code : AYU8153
MUST College Code : 124101

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छत्रपती शाहु महाराज शिक्षण संस्था संयोजित

आयुर्वेद महाविद्यालय व रुग्णालय

CHHATRAPATI SHAHU MAHARAJ SHIKSHAN SANSTHA'S

AYURVED MAHAVIDYALAYA & RUGNALAYA

(Recognized by National Commission for Indian System of Medicine, Ministry of AYUSH, Govt. of India, New Delhi & Affiliated to Maharashtra University of Health Sciences, Nashik.)



संयोजित
छत्रपती शाहु महाराज शिक्षण संस्था
आयुर्वेद महाविद्यालय व रुग्णालय
कान्छनवडी, छत्रपती संभाजीनगर

ATP (Annual Teaching Plan)

Subject: Rasashastra & Bhaishjaya Kalpana

Course: 2nd B.A.M.S. (Admitted in 2022-23)

Batch: Apotikar Batch (2024-2025)

First Term ATP

PRACTICAL

Sr. No.	FACULTY NAME	POINT (TOPIC)	PRACTICAL HOURS	CO
1)	Dr. Sachin N. Hirekar	2. Panchavidha Kashaya Kalpana & their Upakalpana Practicals 1. Swarasa Kalpana: Tulasi swarasa (Sharangdhar Samhita Madhyam Khanda 1/2), Ardraka Swarasa (Sharangdhar Samhita Madhyam Khanda 1/2), Vasaputapaka Swarasa (Sharangdhar Samhita Madhyam Khanda 1/22-23 & 34) 2. Kalka Kalpana: Nimba kalka (Sharangdhar Samhita Madhyam Khanda 5/1), Rasana Kalka (Sharangdhar Samhita Madhyam Khanda 5/1) 3. Kwatha Kalpana: Punarnavashtaka kwatha (Sharangdhar Samhita Madhyam Khanda 2/1-2, 78-79), Rasna Saptaka Kwatha (Sharangdhar Samhita Madhyam Khanda 2/1-2, 88-89) 4. Hima Kalpana: Dhanyaka Hima (Sharangdhar Samhita Madhyam Khanda 4/1, 7-8), Sarivadi Hima 5. Phanta Kalpana: Panchakola phanta (Sharangdhar Samhita Madhyam Khanda 3/1-2), Yashtimadhu phanta (AFI 1 Parishishta - 1, 2/5 Paribhasha) 6. Churna Kalpana: Sitopaladi churna (AFI Part 1, Vol. 1 A, Pg. 348), Hingwastaka Churna (AFI Part 1, Vol. 1 A, Pg. 353) 7. Pramathya: Mustadi Pramathya (Sharangdhar Samhita Madhyam Khanda 2/ 152-153) 8. Paneeya Kalpana: Shadanga Paneeya (Sharangdhar Samhita Madhyam Khanda 2/ 159-160) 9. Mantha Kalpana: Kharjuradi Mantha (Sharangdhar Samhita Madhyam Khanda 3/9-10) 10. Panaka Kalpana: Chinch Panaka (Bhaishjaya Ratnavali Arachaka 18/34-35), Chandana Panaka 11. Ksheerapaka Kalpana: Shwarajyoti Samhita Madhyam Khanda 2/175-176), Arjuna Ksheera Paka - Chakradatta, Lasauria, Ksheerapaka - Charaka Chikitsasthana 5/95 12.	24	CO1, CO2.

Principal

Chhatrapati Shahu Maharaj Shikshan Sanstha's
Ayurved Mahavidyalaya & Rugnalaya,
Kanchenwadi, Chhatrapati Sambhajnagar.

Address : Kanchenwadi, Patthan Road, Chhatrapati Sambhajnagar-431 011. (M.S.) | कान्छनवडी, पैठण रोड, छत्रपती संभाजीनगर - ४३१ ०११ (एम. एस.)

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Page 1 of 8

Head of The Dept.
Ras-Shastra & B. Kalpana
C.S.M.S.S. Ayurved College,
Chhatrapati Sambhajnagar.



Estd : 1988
NCISM College Code : AYU0153
M.U.H.S College Code : 124101

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छत्रपती शाहू महाराज शिक्षण संस्था संयोजित

आयुर्वेद महाविद्यालय व रुग्णालय

CHHATRAPATI SHAHU MAHARAJ SHIKSHAN SANSTHA'S

AYURVED MAHAVIDYALAYA & RUGNALAYA

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		Udaka Kalpana : Tandulodaka (Sharangdhara Samhita Madhyam Khanda 1/28) Note: In each category if more than 1 practical are there any one or all may be performed.		
	Dr. Sachin N. Hirekar	3.Rasa Dravya Aushadhi Nirmana Practicals 2. Kharaliyarasayana :Ananda Bhairava Rasa(A.F.I. - I, Rasayoga, 20:3, Rasendrasarasangraha Iwaradhikara 2/103-105) /, Tribhuvana Keerti rasa(A.F.I. - I, Rasayoga, 20:20, rasamrita 9/80-81) 4. Kupipakwarasayana : Rasasindhura(A.F.I. - I, Kupipakwa Rasayana, 15:6, rasatarangini taranga 6/162-176) 5.Pottalirasayana :Rasagarbhapottali (Rasayogsagar dwitiyabhaga pottali rahasya page 582)	10	
2)	Dr. Tushar S. Dhawali	1.Paribhasha concept Based Practicals A) Dravya Paribhasha- Identification of drugs and their respective class (varga) B) Prakriya Paribhasha- 1.Swedana: Godanti Shodhana (A.F.I.-1,18:4 (Rasatarangini 11/238) Shankha Shodhana (A.F.I.-1,18:18(Rasatarangini 12/12/2) Kapardika shodhana (Rasatarangini 12/89) Guggulu Shodhana (Rasendra Sara Sangraha 1/386, Pg. 117 2. Mardana:Parada Samanya Shodhana (Ayurveda Prakasha 1/165) 3. Dhalana : Gandhaka Shodhana (A.F.I. 2 Parishishta - 2,9 Shodhana(Rasamrita 2, 3) Vanga Shodhana (A.F.I.- 1,18:15 (Sharangadhara M.11/2) Yashada shodhana (Rasatarangini 19/99) 4. Nirvapa: Abhraka Shodhana (A.F.I.-1,18:1 (Rasatarangini 10/20) Tamra Shodhana (A.F.I.-1,18:5 (Ayurveda Prakasha 3/118) 5. Nirjaleekarana : Tankana Shodhana (A.F.I. 2 Parishishta - 2,15 Shodhana (Ayurveda Prakasha 2/244) Kankshi shodhana (A.F.I.-2, 14:3 (Ayurveda Prakasha 2 /258) 6. Bhavana: Hingula Shodhana (A.F.I. 2 Parishishta - 2 Shodhana (Rasamruta 1/54) 7. Bharjana: Gairika Shodhana (A.F.I. 2 Parishishta - 2,11 Shodhana (Rasaratna Samuchchaya 3/49) Hingu Shodhana (Bhavprakash Nighantu, Haritakyadi Varga, 1/101, Pg. 42) 8. Nimajjana/Sthapana: Vatsanabha shodhana (A.F.I. 2 Parishishta - 2,25 Shodhana (Rasamrita parishishta 8:145) 9. Jarana : Vanga Jara (Ayurved Prakash 3/159) Vanga Bhasma (A.F.I.-1,18:15 (Rasamruta 3/94) 10. Murchana: Mugdha Rasa (Rasatarangini 6/9) Kajjali (A.F.I. - 1 Parishishta-1, Paribhasha 21 (Rasatarangini 2/27) 11. Druti- Gandhaka Druti(Rasa Ratna Samuchchaya 3/29) C) Pramanikarana Paribhasha-1)	20	CO1, CO2, CO3, CO4.

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Kanchanwadi, Chhatrapati Sambhajinagar.

Kanchanwadi, Patthan Road, Chhatrapati Sambhajinagar-431011. (M.S.) [कान्चनवाडी, पैथन रोड, छत्रपती संभाजीनगर - ४३१०११ (एम. एस.)]
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Estd : 1989
NCISM College Code : AYU0103
BHUH College Code : 134101

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		Bhasma Samanya Pareeksha - Abhraka Bhasma (Ayurved Prakash 2/104) Shankha Bhasma (Rasaratnasamucchaya 8/26-30) 2) Bhasma Vishesha Pareeksha: Tamra Bhasma (Dadhi/ Nimbu Pariksha)- (Bhaishajya Kalpana Vigyan, Vd. Siddhinandan Mishra, Pg. 78) D) Namburi Phased Spot Test (NPST)		
Dr. Tushar S. Dhawali		3.Rasa Dravya Aushadhi Nirmana Practicals 1. Marana :Vanga Bhasma (A.F.I. - I, Bhasma, 18:15, Rasatarangini Taranga) / Sankha Bhasma:A.F.I. - I, Bhasma, 18:18, Rasatarangini taranga 12/2) 3. Parpati : Rasa Parpati(A.F.I. - I, Parpati, 16:3, Bhaishajyaratnavali grahanirogadhikara 414-416&436-440), Sweta Parpati(A.F.I. - II, Parpati, 12:2, siddhyogsangraha ashmarimutrakruchhaadhikara) 6. Rasa : Laghusutsekhararasa (Rasatantrasara avum siddhaprayogsangraha part-1, kharaliya rasayana page 274) 7. Loha: Navayasa loha(A.F.I. - II, lauha, 17:2, Charaka samhita chi.16/70-71)/, Saptamrita loha(A.F.I. - I, lauha, 21:11, Bhaishajyaratnavali shoolrogadhikara 83-84)	10	CO1, CO2, CO3.

Tushar S. Dhawali

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Ras-Shastra & B. Kalpana

Page 3 of 8

Head of The Dept.

Ras-Shastra & B. Kalpana
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Chhatrapati Sambhajinagar,



Estd : 1955
NCISM College Code : AYU0154
MLHS College Code : 124101

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छत्रपती शाहू महाराज शिक्षण संस्था संयोजित

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CHHATRAPATI SHAHU MAHARAJ SHIKSHAN SANSTHA'S

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Govt. of India, New Delhi & Affiliated to Maharashtra University of Health Sciences, Nashik.)



ATP (Annual Teaching Plan)

Subject: Rasashastra & Bhaishajya Kalpana

Course: 2nd B.A.M.S. (Admitted in 2022-23)

Batch: Apotikar Batch (2024-2025)

Second Term ATP				
PRACTICAL				
Sr. No.	FACULTY NAME	POINT (TOPIC)	PRACTICAL HOURS	CO
1)	Dr. Sachin N. Hirekar	4. Bhaishajya Kalpana Practicals -I 1. Arka Kalpana: Yavani Arka (API, Part 2, Vol. 3, Pg. 24), Gulab Arka (API, Part 2, Vol. 3, Pg. 4) Misreya Arka (AFI, Part 1, Vol. 1 A, Pg. 106) 4. Satva Kalpana: Amruta Satva (AFI, Part 1, Vol. 1 A, Pg. 560) Ardra Satva 6. Lavana Kalpana: Arka Lavana (API, Part 2, Vol. 1, Pg. 103) Narikela Lavana (AFI, Part 1, Vol. 1 A, Pg. 473) 8. Masi Kalpana: Triphala Masi (Rasendra Sara Sangraha Upadamsa Chikitsa) Mayura Piccha Masi (Yogratnakar, Chhardiroga, Pg. 453) 9. Upanaha: Atasi Upanaha 10. Manjana: Dashanamasaka churna (Bhaishajya Ratnavali Mukharog, 61/97-98) 11. Malahara Kalpana: Siktha Taila (Rasatarangini 4/59) Sarjarasa Malahara (Rasatarangini 8/63-85) Gandhaka M... (Rasatarangini 8/63-85)	24	CO1, CO2

Sachin N. Hirekar

Sachin N. Hirekar

Principal

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Page 4 of 8

Head of the Dept.

Ras-Shastra & B. Kalpana
C.S.M.S.S. Ayurved College,
Chhatrapati Sambhajanagar.



Estd : 1999
NCISM College Code : AYU0153
MHTS College Code : 134101

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छत्रपती शाहू महाराज शिक्षण संस्था संघलित

आयुर्वेद महाविद्यालय व रुग्णालय

CHHATRAPATI SHAHU MAHARAJ SHIKSHA SANSTHA'S

AYURVED MAHAVIDYALAYA & RUGNALAYA

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		12. Lepa Kalpana: Dashanga Lepa (AFI, Part 1, Vol. 1 A, Pg. 487) Shetadhouta Ghrita (Sushrut Samhita Uttartantra 39/283)		
2)	Dr. Tushar S. Dhawali	5. Bhesaja Kalpana Practicals -II 1. Sneha Kalpana: Ghrita Murchana (Bhaishajya Ratnavali, Jwaradhikar, 1285), Taila Murchana (Bhaishajya Ratnavali, Jwaradhikar, 1286-1287) 2. Ghrita Kalpana: Triphala Ghrita (API, Part 2, Vol. 1, Pg. 90), Amruta Ghrita (Bhaishajya Ratnavali Vatarakta 27/126) 3. Taila Kalpana: Ksheera Bala Taila (API, Part 2, Vol. 1, Pg. 124), Arka Taila (Sharangdhar Samhita Madhyam Khanda 9/148) 4. Taila Patana: Bhallataka Taila Patana (Sushrut Samhita Chikitsa Sthana 1/92) 6. Sharkara Kalpana: Nimbu Sharkara (Rasatarangini & Siddhaprayog Sangraha I / Paka Avaleha) 7. Ghana: Kutaja Ghana (AFI Part 2, Pg 175), Guduchi Ghana (Ayurved Prakash 3) 9. Asava : Lohasava (Sharangdhar Samhita, Madhyam Khanda 10/ 34-38), Drakshasava (AFI Part 2, 1:1) 10. Arishta: Arjunarishta (Bhaishajya Ratnavali Hridrog), Takrarishta (Charak Samhita Chikitsa 15 / 120) 11. Shukta Kalpana: Kanji (Sharangdhar Samhita, Madhyam Khanda 10/ 12), Madushukta (Bhaishajya Ratnavali Karnaroga 62 /23-24)	22	CO1, CO2
3)	Dr. Vidya G. Honde	6. Dosage Forms & Selfcare Products Practicals 1. Solid dosage forms: Granules/ Lozenges (Pharmaceutics by R.M. Mehta) 2. Liquid Dosage forms: Syrup/Suspension/Emulsion/ Liniment (Pharmaceutics by R.M. Mehta) 3. Semisolid Dosage forms: Cream/Gel/Ointment/Pain Balm (Pharmaceutics by R.M. Mehta) 4. Hair Care:	22	CO1, CO2, CO6

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Page 5 of 8

Head of The Dept.
Ras-Shastra & B. Kalpana
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Estd : 1969
NCISM College Code : AYU0153
MUNIS College Code : 124101

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छत्रपती शाहू महाराज शिक्षण संस्था संघनित

आयुर्वेद महाविद्यालय व रुग्णालय

CHHATRAPATI SHAHU MAHARAJ SHIKSHAN SANSTHA'S

AYURVED MAHAVIDYALAYA & RUGNALAYA

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		Shampoo (A Handbook of Cosmetics by B M Mithal & R N Saha 8th chapter) 5. Body Care: Soap/Perfume (Pharmaceutics by R.M. Mehta) 6. Face Care: Face pack / Talcum Powder (A Handbook of Cosmetics by B M Mithal & R N Saha 3rd chapter) 7. Lip Care: Lip Balm, Lipstick (A Handbook of Cosmetics by B M Mithal & R N Saha 4th chapter) 8. Oral Care: Tooth Paste/ Mouth Wash (A Handbook of Cosmetics by B M Mithal & R N Saha 19th & 20th chapter) 9. Foot Care: Foot Cream (A Handbook of Cosmetics by B M Mithal & R N Saha 5th chapter) 10. Hand Disinfectant: Hand Sanitizer ((Pharmaceutics by R.M. Mehta) 11. Skin Care: Moisturizer/Sunscreen Lotion (A Handbook of Cosmetics by B M Mithal & R N Saha 6th chapter)		
Dr. Vidya G. Honde	10. Quality Control Practicals 1 Minerals & Metals Mineral Identification • Physical form – Crystal and Amorphous • Hardness on Moh's scale • Brittleness test • Fracture and Cleavage • Streak Test • Luster 2 Plant Material • Estimation of Foreign matter • Solubility • Refractive Index		38	CO1, CO2, CO3, CO5.

Dr. Vidya G. Honde

Principal

Chhatrapati Shahu Maharaj Shikshan Sanstha's
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Kanchanwadi, Chhatrapati Sambhajinagar.



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Dr. B. Kalpaga

Page 6 of 8

Head of The Dept.

Ras-Shastra & B. Kalpaga
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छत्रपती शाहू महाराज शिक्षण संस्था नांदेड

आयुर्वेद महाविद्यालय व रुग्णालय

CHHATRAPATI SHAHU MAHARAJ SHIKSHAN SANSTHA'S

AYURVED MAHAVIDYALAYA & RUGNALAYA

Estd : 1989
NCISM College Code : AYU0155
MUIS College Code : 124151

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संस्था को २०-०९-२०१५
दिनांक र २०१५-१६ सत्रासाठी
एन सी आयुर्वेद केंद्र इतरांसाठी
अनुमति देण्यात आली आहे

	3. Prepared Dosage forms A. Solid Dosage Forms Rasaushadhi • Bhasma and Pishti Pariksha • Determination of Moisture content 4. Kashtoushadhi a. Churna • Particle Size • Bulk Density • Determination of Ash Value – Total Water Soluble/Acid Insoluble ash b. Tablets • Uniformity in Weight and Size • Tablet Hardness B. Semisolid Dosage forms • Moisture Content • Microbial Load C. Liquid Dosage Forms • PH Value • Refractive Index • Specific Gravity • Saponification Value • Iodine Value • Acid Value • Viscosity		
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Beshmish

Principal

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Kanchanwadi, Chhatrapati Sambhajinagar.



Seal

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Page 7 of 8

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Estd : 1989
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छत्रपती शाहू महाराज शिक्षण संस्था संघलित

आयुर्वेद महाविद्यालय व रुग्णालय

CHHATRAPATI SHAHU MAHARAJ SHIKSHAN SANSTHA'S

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अनुमोदित/प्रमाणित
आयुर्वेद महाविद्यालय व रुग्णालय
छत्रपती शाहू महाराज शिक्षण संस्था संघलित
नाशिक - ४२२ ००१

ATP (Annual Teaching Plan)

Subject: Rasashastra & Bhaishjaya Kalpana

Course: 2nd B.A.M.S. (Admitted in 2022-23)

Batch: Apotikar Batch (2024-2025)

Third Term ATP

PRACTICAL

Sr. No.	FACULTY NAME	POINT (TOPIC)	PRACTICAL HOURS	CO
1)	Dr. Sachin N. Hirekar	7.Field Visit/ Study Tour GMP Certified Pharmacy Visit X 2 Pharmacy (1 classical formulations and 1 Proprietary formulations/Having both Manufacturing facility) NABL Accredited drug Testing Laboratory/Research and Development Unit Combined out campus/ Field visit may be planned wherever feasible	24	CO1, CO3, CO4, CO5, CO6
2)	Dr. Tushar S. Dhawali	9. DrugDispensing Practical Drug Dispensing practical for method of Dispensing different dosage forms, them packing for OPD and IPD patients	6	CO1, CO3, CO4
3)	Dr. Vidya G. Honde	8.Hospital IPD Practical Hospital IPD Practical: Formulation prescription, method administration, dose, time, duration, Pathya, Apathya advised - Minimum 10 case sheet record of different dosage forms prescribed for particularease/ disease	10	CO1, CO2, CO3, CO4

[Signature]

Principal

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Page 8 of 8

Head of The Dept.
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Estd : 1989
NCTE Code : AYU0133
MLHS College Code : 124181

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छत्रपती शाहू महाराज शिक्षण संस्था संवर्धित

आयुर्वेद महाविद्यालय व रुग्णालय

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ATP (Annual Teaching Plan)

Subject: Rasashastra & Bhaishjaya Kalpana

Course: 2nd B.A.M.S. (Admitted in 2022-23)

Batch: Apotikar Batch (2024-2025)

First Term ATP (Theory & NLH)

PAPER – 1st

Sr. No.	FACULTY NAME	POINT (TOPIC)	LECTURE HOUR	NON LECTURE HOUR (NLH)	CO
1)	Dr. Sanjay J. Dahake	Point 6 (Paper-1st) Kalpna Nirmana I (Primary & Secondary dosage forms) Definition, classification with suitable examples, reference ingredients, quantity, method of preparation, principle involved, instruments used in small and large scale production, siddhi lakshana, storage, shelf life, modern aspect of related preparation of the following Panchavidha Kashya Kalpna (Primary dosage forms): Swarasa, Kalka, Kwatha, Hima, Phanta Upaklpna (Secondary dosage forms): Kalka: Churna Kalpna Kwatha: Pramathya Kalpna, Paniya Kalpna, Ushnodaka, Ksheera Paka Kalpna, Laksha Rasa, Mamsa Rasa Hima Kalpna : Mantha Kalpna, Udaka Kalpna, Panaka Kalpna Phanta Kalpna: Arka	06	04	CO1, CO2, CO3, CO6.

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MUNS College Code : 124101

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	Dr. Sanjay J. Dahake	Point 7 (Paper-1st) Kalpna Nirmana-II (Method of Preparation of different dosage forms& Dietary Supplements) Avaleha Definition, reference, essential ingredients, general method of preparation, specific rules of avaleha preparation, importance of temperature, siddhi lakshana, shelf life with examples i.e Vasavaleha, Kushmanda avaleha, research updates on Avaleha Kalpna, market survey Sneha Kalpna Aims of Sneha Kalpna, definition,reference, essential ingredients, general method of preparation, specific rules of sneha preparation, importance of temperature, gritha murchana, taila murchana, sneha siddhi lakshana, types of snehapaka, Patra(Gandha Paka), time duration to cook sneha preparation, shelf life with examples Phala grita and Ksheerabala Bala Taila, Concept of Avartana, Research updates on snehakalpna, market survey Sandhana Kalpna Introduction, significance of sandhana kalpna, classification, difference between Madhya and Shukta Kalpna, general method of preparation, essential ingredients, anukta Mana, sandhana vidhi, observations, Burnig candle test, Lime water Test, important factors in Asava Arishta Preparation like sandhanan patra selection, place for fermentation, importance of room temperature, sandhana kala, adding of honey, bhasma, prakshepaka dravya, difference between Asava & Arishta, shelf life and alcohol % with examples Draksharista and Usheerasava, Research updates on Sandhana Kalpna, market survey Pathya Kalpna Definition , significance of Pathya, types, general, method of preparation Manda, Peya, Yavagu, Vilepi, Anna or Odana Kalpna, Krashara, Yusha, Takra, Khada, Kambalika, Raga, Shadava, Related Research updates, Market survey of Dietary Supplements	05	04	CO1, CO3, CO4, CO5.
2)	Dr. Sachin N. Hirekar	Point 1 (Paper-1st) Chronological development of Ayurvediya Aushadhi Nirmana Definition, chronological development, significance and scope of Rasashastra and Bhaishajya Kalpna. Concept of Rasashala , Rasa-mandapa and Bhesajagara Concept of Rasa-Rasayana Briefing on Indians are first to prepare new and improved medicines and Recent development in Ayurvedic Pharmaceuticals.	02	01	CO1

Seshman

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Dr. Sachin N. Hirekar	Point 4 (Paper-1st) Yantropakaranani - I (Equipments and machineries) Principles involved, currently used yantras, their correlation, utility, and Instruments used in Large scale Production Dola Yantra Valuka Yantra Puta Yantra Khalwa Yantra Patana Yantra Darvika Yantra Ulukhala Yantra Patala Yantra Kupi Yantra Arkapatana Yantra Pithara Yantra Sharava Yantra, Palika Yantra, Sthali Yantra, Swedana Yantra, Vidyadhara Yantra Modern Machinery -Grinder, Disintegrator, Pulverizer, Powder Mixer, Mechanical sifter, Ball mill, Granulator, Dryer, Tablet compressing machine, Pills making machine, Coating pan, Polishing pan, End runner machine, Edge runner machine, Capsule filling machine, Ointment mixer, Tube filling machine, Sieves & Meshes, Liquid filling machine, Distillation plant, Strip packing machine, Pouch filling machine, Pyrometer	06	04	CO1, CO5.
Dr. Sachin N. Hirekar	Point 5 (Paper-1st) Yantropakaranani - II (Equipments, fuel and Heating Devices) Principle involved importance of temperature, currently used heating devices utility, quantum of heat and Instruments used in Large scale Production <u>Putra</u> Chandra Puta Surya Puta Maha Puta Gaja Puta Varaha Puta Kukkuta Puta Kapota Puta Lavak Puta Budhar Puta Gorvara Puta Valuka Puta Kumbha / Bhandra Puta <u>Musha</u> Samanya Musha Crucibles- Silica Mudra Sandhi Bandhan Material <u>Kushthi</u> Chullika Angar Koshthi Satwapatan Bhrashtri Gas Stove Hot Plate Heating Mantle Induction Stove Hot Air Oven Muffle Furnace- Horizontal and Vertical <u>Heating Material</u> Solid- Kashtha, coal (wooden / stone), Kshara, Lavana, Valuka, Shakrit, Dhanya Drava- Jala/ steam, Taila Indirect heating- Dhanya Rashi, Bhugarbha sthapana.	05	04	CO1, CO2, CO3, CO5.
3) Dr. Tushar S. Dhawali	Point 2 Paribhasha (Terminology) (Paper-1st) 1. Definition and importance of Paribhasha 2. Word Derivation- Aushadha, Bhesaja, Kalpana, Kashaya, Pancha kashaya Yoni, Samskara 3. Dravya/Varga Paribhasha- (Classical Names, English names, Chemical Composition/ Formula) A) Rasa, Maharasa, Uparasa, Dhatusarga, Upadhatu, Ratna, Uparatna, Sudhavarga, Sikatavarga, Lavanavarga, Visha, Upavisha, Kajjali, Mitrapanchaka, Dravaka Gana, B) Sandigdha (Contraversial): Vaikranta, Chapala, Rasanjana, Pushpanjana, Vahnijara, Kankushtha. C) Anupalabdha (Not Available): Rasaka,	08	04	CO1, CO2, CO3, CO6.

Sachin Hirekar

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	Sauviranjana D) Krutrima (Artificial): Sasyaka, Gandhaka, Kasisa, Rasanjana, Hingula E) Pratinidhi (Substitute) : Vajrabhave Vaikranta, Suvarna- Suvarna Makshika 4. Prakriya Paribhasha- A) Shodhana: Types of Shodhana, Samanya Shodhana, Vishesh Shodhana, Different techniques used for Shodhana, Swedana, Mardana, Dhalana, Nirvapa, Nirjaleekarana, Nimajjana, Bhavana, Bharjana B) Marana: Definition, Importance of Marana, Types of Marana- Agnipaka Method, Putapaka Method, Kupipakwa Method, Bhanupaka Method, Swanga Sheeta C) Amrutikarana, Lohitikarana D) Sattvapattana, Shuddhavarta, Beejavarta E) Druti: Definition, Druti lakshana F) Parada Samskara: Definition, Importance, Ashtasamskara Parada Jaranaa, Murckchhana, Names of Parada-Bandhas 5) Pramanikarana Paribhasha (Terms for Standardization)- A) Grahya-Agrahyattva, Siddhilakshana B) Bhasma pariksha: Varitara, Rekshapurnata, Unama, Slakshnatva, Sukshma, Anjana Sannibha, Dantagre na Kachakacha Bhavati, Varna, Avami, Apunarbhava, Niruttha, Gata Rasattva, Nischandrattva, Niramlattva, Nirdhumattva, Jihvagre adahyamanattva, Dadhi/ Nimbu Pariksha, 6) Puraka Paribhasha (Supplementary)- Rudra Bhaga, Dhanvantari Bhaga 7) Mana-Paribhasha- A) Definition, Classical Types B) Classical and Modern- Conversion chart as per AFI, Scientific Metrology C) Essential Kala- mana.			
Dr. Tushar S. Dhawali	Point 3 Adharbhuta Siddhanta (Application of fundamental principles) Dravya Sangraha and Samrakshana • Time of drug Collection • General Rules • Specific time for specific plant part collection • Time of the day for drug collection • Collection of Praniya Dravya • Place of Drug collection Bhumi mahabhuta predominance • Places from where drugs should not be collected • Stage of drug collection • Rule of Duplication(Dwiguna Mana Ganana) • Ardra and Shushka Dravya mana • Dravya Sangraha Vidhi and Dravya samrakshana • Rasa, Guna, Virya, Vipaka, Prabhava Anukta Visheshokta grahana: Considering Anukta Dravya Aushadha Namakarana: Naming a Preparation Aushadha Sevana Kala: Time of Drug Administration Saveeryata Avadhi (Shelf life of different kalpana) Aushadha Matra: Dosage / Posology Anupana & Sahapana (Adjuvant) Yougika Dravya Siddhanta (Drug Combination).	04	02	CO1, CO2.

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ATP (Annual Teaching Plan)

Subject: Rasashastra & Bhaishjaya Kalpana

Course: 2nd B.A.M.S. (Admitted in 2022-23)

Batch: Apotikar Batch (2024-2025)

First Term ATP (Theory & NLH)

PAPER – 2nd

Sr. No.	FACULTY NAME	POINT (TOPIC)	LECTURE HOUR	NON LECTURE HOUR (NLH)	CO
1)	Dr. Sanjay J. Dahake	Point 15 (Paper 2nd) 1.Aushadhi Prayoga Vigyana Introduction, Ethymology, Scope of Aushadhi Prayoga vigyanaPrashastha bhesaja Lakshana	01	02	CO1
2)	Dr. Tushar S. Dhawali	Point 16 (Paper 2nd) 2.Single drug (Herbal & Mineral) Single drug its variety of formulations and their different indications • Chemical/phytochemical composition • Pharmacodynamics and pharmacokinetics as per formulation • Therapeutic properties • Awasthanusara Uses(as applicable) • Matra • Anupana • Pathyapathya • Sevana Kala • Kala maryada (duration of medication as applicable) • Side effects of medication (as applicable) • Research updates and clinical evidences for each of the following formulations Guduchi Guduchi Swarasa (Sha.Sam.Ma. Kh. Chp1/7 page 138) Guduchyadi Churna (B.R. Pleehayakrut Rogdhikara) Guduchi Kwatha (B.R. Jwaradhikara) Guduchi Hima (B.R. Chardi Rogadhikara) Guduchi Ghana- Samshamani Vati (AFI Part II Page 183) Guduchi Satva (AFI-Part I, Page 205) Amritadi Guggulu (AFI-Part III, Page 107) Amritarishta (AFI Part I page 6) Amalaki Amalaki Swarasa (Sha.Sam.Ma.Kha.) Amalakyadi Churna (Sha.Sam.M.Kha. Churna	08	02	CO1, CO2, CO3, CO4, CO5, CO6.

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	kalpana) Triphala Rasayana (Cha.Chi. Rasayana Adhyaya) Chyavanaprasha (AFI Part I page 37) Dhatri Lauha (AFI Part I Page 284) Amalakyadi Gutika (Sha.Sam.Ma.Kha.Vati Kalpana) Phalatrikadi Kwatha (Sha.Sam.Ma.Kha.Kwatha Kalpana) Triphala Ghrita (Sha.Sam.Ma.Kha. Ghrita Kalpana) Bhallataka Bhallataka Modaka (B.R. Pleeha-Yakrit Rogadhikara) Bhallataka Ghrita (B.R. Gulma Rogadhikara) Bhallataka Guda (B.R. Arsha Rogadhikara) Bhallatakadi Taila (B.R. Nadivrina Rogadhikara) Bhallataka Avaleha (B.R. Arsha Rogadhikara) Bhallatakadi Lepa (B.R. Kushta Rogadhikara) Bhallatakadi Kwatha (B.R. Urusthabha Rogadhikara)Note: For Bhallataka additional ashuddha, avidhi sevanajanya vyadhi and their shantyupaya Gandhaka Gandhaka churna (SY page 217) Gandhaka Rasayana (AFI-Part II, Page 115) Gandhaka Druti (RRR 3rd Chapter) Gandhaka Taila (R.T. 8th Chapter) Gandhakadya Malahara (AFI-Part II, Page 165) Gandhakadi Lepa (RRS Shিরoroga Chikitsa) Gandhaka Vati (B.R. Agnimandya Rogadhikara) Gairika Gairika Pradeha (Cha.Chi. Visarpa Rogadhyaya) Laghusuta shekhara Rasa (AFI Part II Page 282) Gairikadya Malahara (AFI-Part III, Page 224) Gairikadya Gutikanjana (B.R. Netraroga) Gairika rasakriya (Cha.Chi.26/235) Varnakara lepa (Cha.Chi.25/117)	
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Reshmi

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Batch: Apotikar Batch (2024-2025)

Second Term ATP (Theory & NLH)

PAPER – 1st

Sr. No.	FACULTY NAME	POINT (TOPIC)	LECTURE HOUR	NON LECTURE HOUR (NLH)	CO
1)	Dr. Sanjay J. Dahake	-	-	-	-
2)	Dr. Sachin N. Hirekar	8.Rasa Dravya Parichaya- I Synonyms, minerological identification, sources, types, grahya and agrahyata, doshas, shodhana, marana and other processing techniques, Probable Physico-chemical Changes, importance of temperature while processing, yoga, Research updates of the following Must to know Drugs Parada (mercury) Abhraka (Biotite Mica) Makshika (Chalco-pyrite) Shilajatu(Asphaltum Punjabiannum) Gandhaka (Sulfur) Gairika(Red Ochre) Kankshi (Alum) Haratala (Orpiment) Manahshila (Realgar) Kampillaka(Mallotus Philippinensis) Navasadara (Ammonium chloride) Hingula (Red Cinnabar) Swarna (Gold) Rajata (Silver) Tamra (Copper) Loha (Iron) Mandur (rust iron) Vanga (Tin) Naga (Lead) Yashada (Zinc) Mukta (Pearl), Pravala (Coral), Vajra (Diamond) Kaparda (Cowries) Shukti (Oyster Shell) Shankh (Conch Shell) Godanti (Gypsum) Samudraphena (Cattle Fish bone) Kukkutanda twak (Hen's EggShell) Tankana kshara (Borax)	12	04	CO1, CO2, CO3, CO4, CO5.
	Dr. Tushar S. Dhawali	9.Rasa Dravya Parichaya II Synonyms, minerological identification, sources, types, grahya and agrahyata,	07	06	CO1, CO2,

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	shodhana, marana and other processing techniques with probable chemical reactions, the importance of temperature, yoga, research updates of the following: Desirable to know drugs: Sasyaka (Peacock ore) Kaseesa (Green Vitriol), Gauri pashana (Arsenic oxide); Trinakanta, Akika(Agate), Sudha (Lime stone), Khatika Ajashthi; Jaharmohara (Serpentine) Dugdhapashana (Talc)			CO5, CO6.
Dr. Tushar S. Dhawali	10.Rasadravya Parichaya III Synonyms, Minerological Identification, sources, types, Grahya, Agrahyata, Shodhana, Marana, Probable Chemical Changes, Properties,dose, Ashuddha/Apakwa Bhasma Sevanajanya Vydhi and their shantyupaya, yoga, Research updates Nice to know drugs: Vaikrantha, Vimala (Iron Pyrite), Chapala Rasaka Anjana Kankustha Agnijara Giri Sindura (Red oxide of Hg) Mriddara shringa (Litharge) Kamsya (Bronze) Pittala (Brass) Vartaloah. Munikya (Ruby) Tarkshya (Emerald) Pushparaga (Topaz) Nilam (Sapphire) Gomeda (Zircon or Cinnamome stone), Vaidurya (Cats eye) Mriga shringa (Stag horn) Sikata (Silica) Vyomashma (Sangeyashab - Jade) Kousheyashma (Asbestos) Badarshama (silicate of lime)	03	06	CO1, CO2, CO5, CO6.
Dr. Tushar S. Dhawali	11.Kalpana Nirman -III (Method of Preparation of different dosage forms) Sharkara Kalpana General method of preparation, difference between sharkara kalpana and syrup, importance of temperature, precautions, confirmatory tests, packing, preservation, shelf life with Example of Tulasi Arka Sharkara Gudapaka General Method of Preparation, importance of temperature, precautions, confirmatory tests, packing, preservation, shelf life with Example of ManibhadraGuda, Guda Pippali Lavana Kalpana General Method of Preparation, importance of temperature, precautions, confirmatory tests, packing, preservation, shelf life with Example of Narikela Lavana Kshara Kalpana General Method of Preparation, importance of temperature, precautions, confirmatory tests, packing, preservation, shelf life with Example of Kadali Kshara, chinch Kshara	08	06	CO1, CO2, CO3.

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		Ayskriti Kalpana General Method of Preparation, importance of temperature, precautions, confirmatory tests, packing, preservation, shelf life with Example Ayaskriti			
		Lepa Kalpana General Method of Preparation, importance of temperature, precautions, confirmatory tests, packing, preservation, shelf life with Example of Avalgunjadi Lepa, Keshavardhaka Lepa.			
	Dr. Tushar S. Dhawali	12.Chaturvidha Rasayana Introduction, definition, importance, types, Procedure, necessary equipment, Shelf life with following example Kharaliya Rasayana: Shwasakuthara rasa and Vatavidwansana rasa Parpati Rasayana: Loha parpati and sudha parpati Kupipakwa Rasayana: Rasasidhura and Rasa karpura Pottali Rasayana: Tamragarbha pottali and Loha garbha pottali	04	04	CO1, CO2, CO5, CO6.
4)	Dr. Vidya G. Honde	-	-	-	-

Seshmish

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MUHS College Code : 124181

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ATP (Annual Teaching Plan)

Subject: Rasashastra & Bhaishjaya Kalpana

Course: 2nd B.A.M.S. (Admitted in 2022-23)

Batch: Apotikar Batch (2024-2025)

Second Term ATP (Theory & NLH)

PAPER – 2nd

Sr. No.	FACULTY NAME	POINT (TOPIC)	LECTURE HOUR	NON LECTURE HOUR (NLH)	CO
1)	Dr. Sanjay J. Dahake	(18) 4.Aushadhi Kalpa -I (Compound formulations) •Chemical/phytochemical composition • Pharmacodynamics and pharmacokinetics as per formulation • Therapeutic properties and its mode of action in different indications, • Awasthanusara Uses(as applicable) • Matra • Anupana • Pathyapathya • Sevann Kala • Kala niaryada (duration of medication as applicable) • Side effects of medication(as applicable) • Ashuddha apakwa processed , avidhi sevanajanya vyadhi and their shantyupaya, • Research updates and clinical evidences for each of the following formulations: Kharaliya Rasayana • Arogyavardhini Gutika : A.F.I. - I, Rasayoga, 20:4, R.R.S. Visarpa Chi, 20/106 • Kumara Kalyana Rasa : A.F.I. - I, Rasayoga, 20:9, B.R. Balaroga / 163 • Garbhapala Rasa : A.F.I. - II, Rasayoga, 16:14,R.T.Sa. Part - I, 140 Chandraprabha Vati : A.F.I. - I, Vati Gutika, 12:10,Sha.Sa.M.7/40 • Pravala Panchamrita Rasa : A.F.I. - II, Rasayoga, 16:37,B.R. Gulma / 139 • Anandbhairava Rasa : A.F.I. - I, Rasayoga, 20:3,R.Sa.Sa.Jwara 2/103 • Yogendra Rasa : A.F.I. - I, Rasayoga, 20:31,B.R. Vatavyadhi / 506 • Laxmivilas Rasa : A.F.I. - I, Rasayoga, 20:39, B.R. Rasayana / 55 • Vasantakusumakara Rasa : A.F.I. - I, Rasayoga,20:42,R.Sa.Sa.Rasayana Vajikarana / 80 • Vasantamalti Rasa : A.F.I. - I, Rasayoga, 20:41, Si.Bhai.Ma.Ma.Jwara / 60 • Brihat Vata Chintamani Rasa : A.F.I. - I, Rasayoga, 20:26, B.R.,Vatavyadhi/502	16	04	CO1, CO2, CO3, CO4, CO6.

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Estd : 1999
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		• Shankha Vati : A.F.I. - I, Vati Gutika, 12:32, B.R. Agnimandya / 182 • Shwaskuthara Rasa : A.F.I. - I, Rasayoga, 20:49, Yo.Ra., Swasa / Page 373 • Kamadudha Rasa : A.F.I. - II, Rasayoga, 16:9, R.Ta.Sa. Kharaliya Rasayana / 80 • Sutashekhar Rasa : A.F.I. - II, Rasayoga, 16:63, Yo.Ra. Amlapita / Page 125 • Navayasa Loha : A.F.I. - II, Lauha, 17:2, Cha.Sa.Chi. 16/70 • Ichchhabhedhi Rasa : A.F.I. - I, Rasayoga, 20:5, B.Ra. Udararoga / 84 • Krimikuthara Rasa : A.F.I. - II, Rasayoga, 16:12, R.Ta.Sa. Kharaliya Rasayana / P. 103 Parpati Rasayana • Panchamruta Parpati : A.F.I. - I, Parpati, 16:1, B.R. Grahani / 461 • Bola Parpati : A.F.I. - I, Parpati, 16:2, Yo.R., Pradara / P 842 Kupipakwa Rasayana • Swarna Vanga : A.F.I. - I, Kupipakwa, 15:9, Rasamruta 3/ 95 • Makaradhwaja : A.F.I. - I, Kupipakwa, 15: 2, B. R. Vajikarana 2/ 237 • Sameerpannaga Rasa : A.F.I. - I, Kupipakwa, 15:8, A.A.G.S. Part - 4 Page 88 Pottali Rasayana • Hemagarbha Pottali : A.F.I. - II, Rasayoga, 16:66, Rasamruta Rasavigyaniya 9/218			
2)	Dr. Sachin N. Hirekar	(17) 3. Single drug (Bhasma, Shuddha & Pishti) • Single drug/ formulation and its mode of action in different indications • Chemical/phytochemical composition • Pharmacodynamics and pharmacokinetics as per formulation • Therapeutic properties • Awasthanasara Usen (as applicable) • Matra • Anupana • Pathyapathya • Sevana Kala • Kala maryada (duration of medication as applicable) • Side effects of medication (as applicable) • Ashuddha apakwa, avidhi sevanajanya vyadhi and their shantyupaya, • Research updates and clinical evidences for each of the following formulations: Abhraka Bhasma Swarna Bhasma Naga Bhasma Yashada Bhasma Kasisa Bhasma Shuddha Shilajatu Shuddha Gandhaka Shuddha Gairika, Shuddha Kankshi Mukta Pishti & Bhasma Pravala Pishti & Bhasma Vajra Bhasma Kaparda Bhasma Shankh Bhasma Godanti Bhasma Shuddha Tankana Shuddha Kankshi.	12	06	CO1, CO2, CO6.
3)	Dr. Tushar S. Dhawali	-	-	-	-
4)	Dr. Vidya G. Honde	-	-	-	-



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Course: 2nd B.A.M.S. (Admitted in 2022-23)

Batch: Apotikar Batch (2024-2025)

Third Term ATP (Theory & NLH)

PAPER – 1st

Sr. No.	FACULTY NAME	POINT (TOPIC)	LECTURE HOUR	NON LECTURE HOUR (NLH)	CO
1)	Dr. Tushar S. Dhawali	14.GMP (Schedule T) & Regulatory aspects of Ayurvedic drugs Brief overview of following Drug and Cosmetics Act 1940 and Rules 1945 import, manufacture, sale distribution of drugs and cosmetics standards of quality, misbranded, adulterated, spurious drugs and cosmetics as amended from time to time. New Acts related to Drugs and Devices. Good Manufacturing Practices (GMP) of ASU Drugs in accordance to Schedule-T Food Safety and Standards Authority of India (FSSAI) and FDA Approval Drugs.	5	2	CO3, CO5
2)	Dr. Vidya G Honde	13.Current and Emerging Trends in Ayurvedic pharmaceuticals	5	3	CO1, CO5, CO6

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NCISM College Code : AYU8153
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ATP (Annual Teaching Plan)

Subject: Rasashastra & Bhaishjaya Kalpana

Course: 2nd B.A.M.S. (Admitted in 2022-23)

Batch: Apotikar Batch (2024-2025)

Third Term ATP (Theory & NLH)

PAPER – 2nd

Sr. No.	FACULTY NAME	POINT (TOPIC)	LECTURE HOUR	NON LECTURE HOUR (NLH)	CO
1)	Dr. Sanjay J. Dahake	5. Aushadhi Kalpana (Compound Drugs/Formulations) • Chemical/phytochemical composition • Pharmacodynamics and pharmacokinetics as per formulation • Therapeutic properties and its mode of action in different indications, • Awasthanusara Uses (as applicable) • Matra • Anupana • Pathyapathya • Sevana Kala • Kala maryada (duration of medication as applicable) • Side effects of medication (as applicable) • Improperly processed, avidhi sevanajanya vyadhi and their shantyupaya, • Research updates and clinical evidences for each of the following formulations: Dashamoola Kwatha (AFI Part I Page 55) Mahamanjistadi Kwatha (AFI Part I page 59) Pushyanuga Churna (AFI-Part I, Page 113)	15	14	

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	Sudarshana Churna (AFI Part I Page 116) Lavana Bhaskara Churna (AFI-Part I, Page 114) Bilvadi Gutika (AFI Part I Page 188) Chitrakadi Gutika (AFI-Part I, Page 186) Sanjivani Vati (B.R. Jwaradhikara) Vyoshadi Vati (AFI Part III Page 253) Bala Chaturbhadra Rasa (B.R. Balarogadhikara) Simhanada Guggulu (AFI-Part I, Page 71) Yogaraja Guggulu (AFI-Part I, Page 69) Chyavanaprashavaleha (AFI Part I page 37) Dadimavaleha (Y.R. Jwaratisaradhyaya) Panchagavya Ghrita (AFI Part I Page 90) Brahmi Ghrita (AFI Part I Page 93) Narayana Taila (AFI Part I Page 138) Neelibhringadi Taila (AFI Part I Page 139) Panchaguna Taila (AFI-Part II, Page 145) Aravindasava (AFI Part I page 7) Ashokarishta (AFI Part I page 8) Kumaryasava (AFI Part I page 10) Kutajarishta (AFI Part I page 10) Gandhakadya Malahara (AFI-Part II, Page 165) Lepa Gut (AFI Part III page 232)			
Dr. Sanjay J. Dahake	8. Anupana Prayoga for Aushadhi Kalpa Properties of Anupana Factors to be considered for selection of Anupana Dosha Aushadha Roga/ Rogi Ahara Purpose of Anupana Contraindications of Anupana Eka Kalpa Vydi anusara aneka Anupana for following Yogas 1. Kaishore Guggulu: Sarangadhar Samhita, Madhyam khanda- 7/72-81, P: 136 2. Yogaraj, Guggulu: Sarangadhar Samhita Madhyam khanda- 7/56-69, P:135 3. Narayana Churna: Sarangadhar Samhita of Pandit Sarangadharacharya, Madhyam khanda- 7/83-91, P:123-124	5	4	CO1, CO2, CO4

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		4. Rasa Sindoor: Rasa Tarangini Hindi commentary of Sri Sadananda Sarma, Chaukhambha Surbharti, Murechana vigyaniya Taranga, 6/203-234, P: 125-127 5. Rasa Parpati: Rasa Tarangini of Sri Sadananda Sarma, Chaukhambha Surbharti Prakashan, Murechana vigyaniya Taranga, 6/144-153, P: 116-117 6. Kankayan Vati: Sarangadhar Samhita Surbharti Prakashan, Madhyam khanda, 7/50-55, P: 134-135)			
2)	Dr. Sachin N. Hirekar	11. Traditional and local health practices	5	2	CO1.
	Dr. Sachin N. Hirekar	10. Rational prescription along with safe dispensing of Ayurvedic formulations. Rational prescription along with safe dispensing of Ayurvedic formulations as per NABH guideline	5	1	CO1, CO2, CO3, CO4, CO5
	Dr. Sachin N. Hirekar	9. Aushadhi Prayoga Marga Introduction Types in ayurveda Advantages and disadvantages of each aushadhi prayoga marga and probable mode of action after administration of following dosage forms in below mentioned routes 1. Mukha (Oral Cavity): Vati, Gutika, Churna, Asava, Arishta, Kashaya, Avaleha, Khanda, Sneha (Ghrita/Taila). 2. Nasa (Nasal Route)- Dosage form used - Churna, taila, swarasa, arka 3. Karna (Through Ear)- Taila, Ghrita 4. Akshi (Through Eyes)- Ghrita, Taila. 5. Twak (Through Skin)- Lepa, Alepa, Pralepa, Malahara, upanaha, pradeha, abhyanga, udvartana • Shirodhara - Takra • Abhyanga- Sahacharadi Taila • Ashti Bhagna- Murivenna Taila • Vrana- Jatyadi Taila • Smashru - Shankha Bhasma • Kesha Ghanata- Bringaradi Taila	10	5	CO2, CO4, CO5

Sachin N. Hirekar

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		- Akala Palita – Hasthi Danta Masi - Indralupta – Icchabhedi Rasa - Lomashatana – Lomashatana Lepa 6. Guda (Anal Route)- Dosage forms - Vartis, taila, ghrita, kalka, churna, kashaya 7. Mutra marga (Through urethra)- Uttara Basti with Dosage forms- Taila, ghrita 8. Yoni marga (Through vagina)- Yoni Dharana, Yoni Dhavana, Yoni Pichu, Yoni			
3)	Dr. Tushar S. Dhawali	7.Nutraceuticals -Introduction Types, non-Indian nutraceuticals and their uses Ayurvedic Perspective of Nutraceuticals with special reference to dietetic preparation, rasayana with one example for each category, mode of action, nutritional value calculation, research updates and case studies on below mentioned category General Health: Kushmanda avaleha Pediatric Health: Preenana Modaka (Kashyapa) Geriatric Health: Chavanaprasha avaleha Reproductive Health: Phala Grita Women's health: Soubhagya shuntipaka, Shatavari grita Cardio-protective: Arjuna Ksheerapaka & Rasana ksheera paka Sports endeavor: Kharjuradi mantha Mental health: Brahma Rasayana	5	6	CO1, CO2, COCO6, CO7
4)	Dr. Vidya G Honde	6.Dosage Forms & Cosmetic Products Definition of dosage form, -Cosmetics Advantages and disadvantages of currently available dosage forms and cosmetics. Route of their administration. Research updates on modification of classical Ayurvedic dosage forms and relevant case studies.	5	5	CO2, CO3, CO7
	Dr. Vidya G Honde	Pharmacovigilance for Ayurveda drugs	5	1	CO2, CO4, CO5

Reshma

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ATP (Annual Teaching Plan)

Subject: Rasashastra & Bhaishjaya Kalpana

Course: 2nd B.A.M.S. (Admitted in 2023-24)

Batch: AKODE Batch (2025-2026)

First Term ATP (Theory & NLH)

PAPER – 1st

Sr. No.	FACULTY NAME	POINT (TOPIC)	LECTURE HOUR	NON LECTURE HOUR (NLH)	CO
1)	Dr. Sanjay J. Dahake	Point 6 (Paper-1st) Kalpana Nirmana I (Primary & Secondary dosage forms) Definition, classification with suitable examples, reference ingredients, quantity, method of preparation, principle involved, instruments used in small and large scale production, siddhi lakshana, storage, shelf life, modern aspect of related preparation of the following Panchavidha Kashya Kalpana (Primary dosage forms): Swarasa, Kalka, Kwatha, Hima, Phanta Upaklpana (Secondary dosage forms): Kalka: Churna Kalpana Kwatha: Pramathya Kalpana, Paniya Kalpana, Ushnodaka, Ksheera Paka Kalpana, Laksha Rasa, Mamsa Rasa Hima Kalpana : Mantha Kalpana, Udaka Kalpana, Panaka Kalpana Phanta Kalpana: Arka	06	04	CO1, CO2, CO3, CO6.
	Dr. Sanjay J. Dahake	Point 7 (Paper-1st) Kalpana Nirmana-II (Method of Preparation of different dosage forms & Dietary Supplements) Avaleha Definition, reference, essential ingredients, general method of preparation, specific method of avaleha preparation, importance of temperature, siddhi lakshana, shelf life	05	04	CO1, CO3, CO4, CO5.

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		with examples i.e Vasavaleha, Kushmanda avaleha, research updates on Avaleha Kalpana, market survey Sneha Kalpana Aims of Sneha Kalpana, definition, reference, essential ingredients, general method of preparation, specific rules of sneha preparation, importance of temperature, gritha murchana, taila murchana, sneha siddhi lakshana, types of snehapaka, Patra(Gandha Paka), time duration to cook sneha preparation, shelf life with examples Phala gritha and Ksheerabala Bala Taila, Concept of Avartana, Research updates on snehakalpana, market survey Sandhana Kalpana Introduction, significance of sandhana kalpana, classification, difference between Madhya and Shukta Kalpana, general method of preparation, essential ingredients, anukta Mana, sandhana vidhi, observations, Burnig candle test, Lime water Test, important factors in Asava Arishta Preparation like sandhanan patra selection, place for fermentation, importance of room temperature, sandhana kala, adding of honey, bhasma, prakshepaka dravya, difference between Asava & Arishta, shelf life and alcohol % with examples Draksharista and Usheerasava, Research updates on Sandhana Kalpana, market survey Pathya Kalpana Definition , significance of Pathya, types, general, method of preparation Manda, Peya, Yavagu, Vilepi, Anna or Odana Kalpana, Krashara, Yusha, Takra, Khada, Kambalika, Raga, Shadava, Related Research updates, Market survey of Dietary Supplements			
2)	Dr. Sachin N. Hirekar	Point 1 (Paper-1 st) Chronological development of Ayurvediya Aushadhi Nirmana Definition, chronological development, significance and scope of Rasashastra and Bhaishajya Kalpana. Concept of Rasashala , Rasa-mandapa and Bheshajagara Concept of Rasa-Rasayana Briefing on Indians are first to prepare metal-based medicines and Recent development in Ayurvedic Pharmaceuticals.	02	01	CO1
	Dr. Sachin N. Hirekar	Point 4 (Paper-1 st) Yantropakaranani- I (Equipments and machineries) Principles involved, currently used yantras, their correlation, utility, and Instruments used in Large scale Production Dola Yantra Chakra Yantra Puta Yantra Khalwa Yantra Patana Yantra	06	04	CO1, CO5.

[Signature]

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		Darvika Yantra Mukhala Yantra Patala Yantra Kupi Yantra Arkapatana Yantra Pihara Yantra Sharava Yantra, Palika Yantra, Sihali Yantra, Swedana Yantra, Vidyadhara Yantra Modera Machinery -Grinder, Disintegrator, Pulverizer, Powder Mixer, Mechanical sifter, Ball mill, Granulator, Dryer, Tablet compressing machine, Pills making machine, Coating pan, Polishing pan, End runner machine, Edge runner machine, Capsule filling machine, Ointment mixer, Tube filling machine, Sieves & Meshes, Liquid filling machine, Distillation plant, Strip packing machine, Pouch filling machine, Pyrometer			
	Dr. Sachin N. Hirekar	Point 5 (Paper-1st) Yantropakaranani -II (Equipments, fuel and Heating Devices) Principle involved, importance of temperature, currently used heating devices utility, quantum of heat and instruments used in Large scale Production <u>Putra</u> Chandra Putra Surya Putra Maha Putra Gaja Putra Varaha Putra Kukkuta Putra Kapota Putra Lavak Putra Budhar Putra Gorvara Putra Valuka Putra Kumbha / Bhanda Putra <u>Musha</u> Samanya Musha Crucibles- Silica Mudra Sandhi Bandhan Material <u>Koshthi</u> Chulika Angar Koshthi Satwapatan Bhrashtri Gas Stove Hot Plate Heating Mantle Induction Stove Hot Air Oven Muffle Furnace- Horizontal and Vertical <u>Heating Material</u> Solid- Kashtha, coal(wooden / stone), Kshara, Lavana, Valuka, Shakrit, Dhanya Drava- Jala/ steam, Taila Indirect heating- Dhanya Rashi, Bhugarbha sthapan.	05	04	CO1, CO2, CO3, CO5.
3)	Dr. Tushar S. Dhawali	Point 2 Paribhasha (Terminology) (Paper-1st) 1. Definition and Importance of Paribhasha 2. Word Derivation- Aushadha, Bhesaja, Kalpana, Kashaya, Pancha kashaya Yoni, Samskara 3. Dravya/Varga Paribhasha- (Classical Names, English names, Chemical Composition/ Formula) A) Rasa, Maharasa, Uparasa, Dhatuvarga, Upadhatu, Ratna, Uparatna, Sudhavarga, Sikatavarga, Lavanavarga, Visha, Upavisha, Kajjali, Mitrapanchaka, Dravaka Gana, B) Sandigdha(Contraversial): Vaikranta, Chapala, Rasanjana, Pushpanjana, Vahnijara, Girisindura, Kankushtha, C) Anupalabdha (Not Available): Rasaka, Sauviranjana D) Krutrima (Artificial): Sasyaka, Gandhaka, Kasisa, Rasanjana, Hingula E) Pratinidhi (Substitute) : Vajrabhave Vaikranta, Suvarna- Suvarna Makshika 4. <u>Pratidhi</u> Paribhasha- A) Shodhana: Types of Shodhana, Samanya Shodhana,	08	04	CO1, CO2, CO3, CO6.

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	Vishesha Shodhana, Different techniques used for Shodhana, Swedana, Mardana, Dhalana, Nirvapa, Nirjaleekarana, Nimajjana, Bhavana, Bharjana B) Marana,: Definition, importance of Marana, Types of Marana- Agnipaka Method, Putapaka Method, Kupipakwa Method, Bhanupaka Method, Swanga Sheeta C) Amrutikarana, Lohitikarana D) Sattvapattana, Shuddhavarta, Beejavarta E) Druti: Definition, Druti lakshana F) Parada Samskara: Definition, Importance, Ashtasamskara Parada Jaranaa, Murchchhana, Names of Parad-Bandhas 5) Pramanikarana Paribhasha (Terms for Standardization)- A) Grahy-Agrahyattva, Siddhilakshana B) Bhasma pariksha: Varitara, Rekhapurnata, Unama, Slakshnattva, Sukshma, Anjana Sannibha, Dantagre na Kachekacha Bhavati, Varna, Avami, Apunarbhava, Niruttha, Gata Rasattva, Nischandrattva, Niramlattva, Nirdhumattva, Jihvagre adahyamanattva, Dadhi/ Nimbu Pariksha, 6) Puraka Paribhasha (Supplementary)- Rudra Bhaga, Dhanvantari Bhaga7) Mana-Paribhasha- A) Definition, Classical Types B) Classical and Modern- Conversion chart as per AFI, Scientific Metrology C) Essential Kala- mana.			
Dr. Tushar S. Dhawali	Point 3 Adharbhuta Siddhanta (Application of fundamental principles) Dravya Sangraha and Samrakshana • Time of drug Collection • General Rules • Specific time for specific plant part collection • Time of the day for drug collection • Collection of Praniya Dravya • Place of Drug collection Bhumi mahabhuta predominance • Places from where drugs should not be collected • Stage of drug collection • Rule of Duplication(Dwiguna Mana Ganana) • Ardra and Shushka Dravya mana • Dravya Sangraha Vidhi and Dravya samrakshana • Rasa, Guna, Virya, Vipaka, PrabhavaAnukta Visheshokta grahana: Considering Anukta Dravya Aushadha Namakarana: Naming a Preparation Aushadha Sevana Kala: Time of Drug Administration Saveeryata Avadhi (Shelf life of different kalpana) Aushadha Matra:Dosage / Posology Anupana & Sahapana (Adjuvant) Yougika Dravya Siddhanta(Drug Combination).	04	02	CO1, CO2.

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ATP (Annual Teaching Plan)

Subject: Rasashastra & Bhaishjaya Kalpana

Course: 2nd B.A.M.S. (Admitted in 2023-24)

Batch: AKODE Batch (2025-2026)

First Term ATP (Theory & NLH)

PAPER – 2nd

Sr. No.	FACULTY NAME	POINT (TOPIC)	LECTURE HOUR	NON LECTURE HOUR (NLH)	CO
1)	Dr. Sanjay J. Dahake	Point 15 (Paper 2 nd) 1.Aushadhi Prayoga Vigyana Introduction, Ethymology, Scope of Aushadhi Prayoga vigyanaPrashastha bhesaja Lakshana	01	02	CO1
2)	Dr. Tushar S. Dhawali	Point 16 (Paper 2 nd) 2.Single drug (Herbal & Mineral) Single drug its variety of formulations and their different indications • Chemical/phytochemical composition • Pharmacodynamics and pharmacokinetics as per formulation • Therapeutic properties • Awasthanusara Uses(as applicable) • Matra • Anupana • Pathyapathya • Sevana Kala • Kala maryada (duration of medication as applicable) • Side effects of medication (as applicable) • Research updates and clinical evidence for each of the following formulations Guduchi Ghrita (Sha.Sam.Ma. Kh. Chp1/7 page 138) Guduchyadi Churna (B.R. Phadavakrut Boedhikara) Guduchi Kwatha (B.R. Jwaradhikara) Guduchi Hima (B.R. Chardi	08	02	CO1, CO2, CO3, CO4, CO5, CO6.

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	Rogadhikara) Guduchi Ghana- Samshamani Vati (AFI Part II Page 183) Guduchi Satva (AFI Part I, Page 205) Amrutadi Guggulu (AFI-Part III, Page 107) Amritarishta (AFI Part I page 6) Amalaki Amalaki Swarasa (Sha.Sam.Ma.Kha.) Amalakyadi Churna (Sha.Sam.M.Kha. Churna kalpana) Triphala Rasayana (Cha.Chi. Rasayana Adhyaya) Chyavanaprasha (AFI Part I page 37) Dhatu Lauha (AFI Part I Page 284) Amalakyadi Gutika (Sha.Sam.Ma.Kha.Vati Kalpana) Phalatrikadi Kwatha (Sha.Sam.Ma.Kha.Kwatha Kalpana) Triphala Ghrita (Sha.Sam.Ma.Kha. Ghrita Kalpana) Bhallataka Bhallataka Modaka (B.R. Pleecha-Yakrit Rogadhikara) Bhallataka Ghrita (B.R. Gulma Rogadhikara) Bhallataka Guda (B.R. Arsha Rogadhikara) Bhallatakadi Taila (B.R. Nadvirina Rogadhikara) Bhallataka Avaleha (B.R. Arsha Rogadhikara) Bhallatakadi Lepa (B.R. Kushta Rogadhikara) Bhallatakadi Kwatha (B.R. Urusthabha Rogadhikara) Note: For Bhallataka additional ashuddha, avidhi sevanajanya vyadhi and their shantyupaya Gandhaka Gandhaka churna (SY page 217) Gandhaka Rasayana (AFI-Part II, Page 115) Gandhaka Druti (RRR 3rd Chapter) Gandhaka Taila (R.T. 8th Chapter) Gandhakadya Malahara (AFI-Part II, Page 165) Gandhakadi Lepa (RRS Shiruroga Chikitsa) Gandhaka Vati (B.R. Agnimandya Rogadhikara) Gairika Gairika Pradeha (Cha.Chi. Visarpa Rogadhyaya) Laghusuta shekhara Rasa (AFI Part II Page 282) Gairikadya Malahara (AFI-Part III, Page 224) Gairikadya Gutikanjana (B.R. Netraroga) Gairika rasakriya (Cha.Chi.26/235) Varnakara lepa (Cha.Chi.25/117)			
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ATP

(Annual

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Course: 2nd B.A.M.S. (Admitted in 2023-24)

Batch: AKODE Batch (2025-2026)

Second Term ATP (Theory & NLH)

PAPER – 1st

Sr. No.	FACULTY NAME	POINT (TOPIC)	LECTURE HOUR	NON LECTURE HOUR (NLH)	CO
1)	Dr. Sanjay J. Dahake	-	-	-	-
2)	Dr. Sachin N. Hirekar	8.Rasa Dravya Parichaya- I Synonyms, mineralogical identification, sources, types, grahya and agrahyata, doshas, shodhana, marana and other processing techniques, Probable Physico-chemical Changes, Importance of temperature while processing, yoga, Research updates of the following Must to know Drugs Parada (mercury) Abhraka (Biotite Mica) Makshika (Chalco-pyrite) Shilajatu (Asphaltum Punjabanum) Gandhaka (Sulfur) Gairika (Red Ochre) Kankshi (Alum) Haratala (Orpiment) Manahshila (Magnetite) Kampillaka (Mallotric Philippineensis) Navasadara (Ammonium chloride) Hingula (Red Cinnabar) Swarna (Gold) Rajata (Silver) Tamra (Copper) Loha (Iron) Mandur (rust iron) Vanga (Tin) Naga (Lead) Yashada (Zinc) Mukta (Pearl), Pravala (Coral), Vajra (Diamond) Kaparda (Cowries) Shukti (Oyster Shell) Shankh (Conch Shell) Godanti (Gypsum) Samudraphena (Cattle Fish bone) Kukkutanda twak (Hen's EggShell) Tannu (Borax)	12	04	CO1, CO2, CO3, CO4, CO6.

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Dr. Tushar S. Dhawali	9. Rasa Dravya Parichaya II Synonyms, mineralogical identification, sources, types, Grahya, Agrahyata, shodhana, marana and other processing techniques with probable chemical reactions, the importance of temperature, yoga, research updates of the following: Desirable to know drugs: Sasyaka (Peacock ore) Kaseesa (Green Vitriol), Gauri pashana (Arsenic oxide); Trinakanta, Akika (agate), Sudha (Lime stone), Khatika Ajashthi; Jaharmohara (Serpentine) Dugdhapashana (Talc)	07	06	CO1, CO2, CO5, CO6.
Dr. Tushar S. Dhawali	10. Rasadravya Parichaya III Synonyms, Mineralogical Identification, sources, types, Grahya, Agrahyata, Shodhana, Marana, Probable Chemical Changes, Properties, dose, Ashuddha/Apakwa Bhasma Sevanajanya Vydhi and their shantypaya, yoga, Research updates Nice to know drugs: Vaikrantha, Vimala (Iron Pyrite), Chapala Rasaka Anjana Kankustha Agrija Giri Sindura (Red oxide of Hg) Mriddara shringa (Litharge) Kamsya (Bronze) Pittala (Brass) Vartaloa. Manikya (Ruby) Tarkshya (Emerald) Pushparaga (Topaz) Nilam (Sapphire) Gomeda (Zircon or Cinnamome stone), Vaidurya (Cats eye) Mriga shringa (Stag horn) Sikata (Silica) Vyomashma (Sangeyashab - Jade) Kousheyashma (Asbestos) Badarshama (silicate of lime)	03	06	CO1, CO2, CO5, CO6.
Dr. Tushar S. Dhawali	11. Kalpana Nirman -III (Method of Preparation of different dosage forms) Sharkara Kalpana General method of preparation, difference between sharkara kalpana and syrup, importance of temperature, precautions, confirmatory tests, packing, preservation, shelf life with Example of Tulasi Arka Sharkara Gudapaka General Method of Preparation, importance of temperature, precautions, confirmatory tests, packing, preservation, shelf life with Example of Manibhadra Guda, Guda Pippali Lavana Kalpana General Method of Preparation, importance of temperature, precautions, confirmatory tests, packing, preservation, shelf life with Example of Narikela Lavana	08	06	CO1, CO2, CO3.

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१९८० साली आयुर्वेद महाविद्यालय व रुग्णालय
२०१६ साली एम.एस.सी. आयुर्वेद महाविद्यालय
रुग्णालय म्हणून सुरू झाले

		Kshara Kalpana General Method of Preparation, importance of temperature, precautions, confirmatory tests, packing, preservation, shelf life with Example of Kadali Kshara, chinch Kshara Ayskriti Kalpana General Method of Preparation, importance of temperature, precautions, confirmatory tests, packing, preservation, shelf life with Example Ayaskriti Lepa Kalpana General Method of Preparation, importance of temperature, precautions, confirmatory tests, packing, preservation, shelf life with Example of Avalgunjadi Lepa, Keshavardhaka Lepa.			
	Dr. Tushar S. Dhawali	12.Chaturvidha Rasayana Introduction, definition, importance, types, Procedure, necessary equipment, Shelf life with following example Kharaliya Rasayana: Shwasakuthara rasa and Vatavidwansana rasa Parpati Rasayana: Loha parpati and sudha parpati Kupipakwa Rasayana: Rasasidhura and Rasa karpura Pottali Rasayana: Tamragarbha pottali and Loha garbha pottali	04	04	CO1, CO2, CO5, CO6.
4)	Dr. Vidya G. Honde	-	-	-	-

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ATP (Annual Teaching Plan)

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Course: 2nd B.A.M.S. (Admitted in 2023-24)

Batch: AKODE Batch (2025-2026)

Second Term ATP (Theory & NLH)					
PAPER – 2 nd					
Sr. No.	FACULTY NAME	POINT (TOPIC)	LECTURE HOUR	NON LECTURE HOUR (NLH)	CO
1)	Dr. Sanjay J. Dahake	(18) 4.Aushadhi Kalpa -I (Compound formulations) •Chemical/phytochemical composition • Pharmacodynamics and pharmacokinetics as per formulation • Therapeutic properties and its mode of action in different indications, • Awasthanasara Uses(as applicable) • Matra • Anupana • Pathyapathya • Sevana Kala • Kala maryada (duration of medication as applicable) • Side effects of medication(as applicable) • Ashuddha apakwa processed , avidhi sevanajanya vyadhi and their shantyupayn, • Research updates and clinical evidences for each of the following formulations: Kharaliya Rasayana • Arogyavardhini Gutika : A.F.I. - I, Rasayoga, 20:4, R.R.S. Visarpa Chi. 20/106 • Kumara Kalyana Rasa : A.F.I. - I, Rasayoga, 20:9, B.R. Baluroga / 163 • Garbhapala Rasa : A.F.I. - II, Rasayoga, 16:14,R.T.Sa. Part - I, 140 Chandraprabha Vati : A.F.I. - I, Vati Gutika, 12:10,Sha.Sa.M.7/40 • Praval Panchamrita Rasa : A.F.I. - II, Rasayoga, 16:37,B.R. Gulma / 139 • Anandbhairava Rasa : A.F.I. - I, Rasayoga, 20:3,R.Sa.Sa. J. 139 • Yogendra Rasa : A.F.I. - I, Rasayoga, 20:31,B.R.	15	04	CO1, CO2, CO3, CO4, CO6.

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		Vatavyadhi / 506 • Laxmivilas Rasa : A.F.I. - I, Rasayoga, 20:39, B.R. Rasayana / 55 • Vasantakusumakara Rasa : A.F.I. - I, Rasayoga, 20:42, R.Sa.Sa. Rasayana Vajikarana / 80 • Vasantamalti Rasa : A.F.I. - I, Rasayoga, 20:41, Si.Bhai.Ma.Ma.Jwara / 60 • Brihat Vata Chintamani Rasa : A.F.I. - I, Rasayoga, 20:26, B.R., Vatavyadhi/502 • Shankha Vati : A.F.I. - I, Vati Gutika, 12:32, B.R. Agnimandya / 182 • Shwaskuthara Rasa : A.F.I. - I, Rasayoga, 20:49, Yo.Ra., Swasa / Page 373 • Kamadudha Rasa : A.F.I. - II, Rasayoga, 16:9, R.Ta.Sa. Kharaliya Rasayana / 80 • Sutashekhar Rasa : A.F.I. - II, Rasayoga, 16:63, Yo.Ra. Amlapita / Page 125 • Navayasa Loha : A.F.I. - II, Lauha, 17:2, Cha.Sa.Chi. 16/70 • Ichchhabhedi Rasa : A.F.I. - I, Rasayoga, 20:5, B.Ra. Udararoga / 84 • Krimikuthara Rasa : A.F.I. - II, Rasayoga, 16:12, R.Ta.Sa. Kharaliya Rasayana / P. 103 Parpati Rasayana • Panchamruta Parpati : A.F.I. - I, Parpati, 16:1, B.R. Grahani / 461 • Bola Parpati : A.F.I. - I, Parpati, 16:2, Yo.R., Pradara / P 842 Kupipakwa Rasayana • Swarna Vanga : A.F.I. - I, Kupipakva, 15:9, Rasamruta 3/95 • Makaradhwaja : A.F.I. - I, Kupipakva, 15:2, B. R. Vajikarana 2/237 • Sameerpannaga Rasa : A.F.I. - I, Kupipakva, 15:8, A.A.G.S. Part - 4 Page 88 Pottali Rasayana • Hemagarbha Pottali : A.F.I. - II, Rasayoga, 16:66, Rasamruta Rasavigyaniya 9/218			
2]	Dr. Sachin N. Hirekar	(17) 3. Single drug (Bhasma, Shuddha & Pishti) • Single drug/ formulation and its mode of action in different indications • Chemical/phytochemical composition • Pharmacodynamics and pharmacokinetics as per formulation • Therapeutic properties • Awasthanusara Uses (as applicable) • Matra • Anupana • Pathyapathya • Sevana Kala • Kala maryada (duration of medication as applicable) • Side effects of medication (as applicable) • Ashuddha apakwa, avidhi sevanajanya vyadhi and their shantyupaya, • Research updates and clinical evidences for each of the following formulations: Abhraka Bhasma Swarna Makshika Bhasma Swarna Bhasma Rajata Bhasma Lauha Bhasma Tamra Bhasma Vanga Bhasma Naga Bhasma Yashada Bhasma Kasisa	12	06	CO1, CO2, CO5

Sachin N. Hirekar

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		Bhasma Shuddha Shilajatu Shuddha Gandhaka Shuddha Gairika, Shuddha Kankshi Mukta Pishti & Bhasma Pravala Pishti & Bhasma Vajra Bhasma Kaparda Bhasma Chakki Bhasma Godanti Bhasma Shuddha Tankana Shuddha Kankshi.			
3)	Dr. Tushar S. Dhawali	-	-	-	-
4)	Dr. Vidya G. Honde	-	-	-	-

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Course: 2nd B.A.M.S. (Admitted in 2023-24)

Batch: AKODE Batch (2025-2026)

Third Term ATP (Theory & NLH)

PAPER – 1st

Sr. No.	FACULTY NAME	POINT (TOPIC)	LECTURE HOUR	NON LECTURE HOUR (NLH)	CO
1)	Dr. Tushar S. Dhawale	14.GMP (Schedule T) & Regulatory aspects of Ayurvedic drugs Brief overview of following Drug and Cosmetics Act 1940 and Rules 1945 import, manufacture, sale distribution of drugs and cosmetics standards of quality, misbranded, adulterated, spurious drugs and cosmetics as amended from time to time. New Acts related to Drugs and Devices. Good Manufacturing Practices (GMP) of ASU Drugs in accordance to Schedule- T Food Safety and Standards Authority of India (FSSAI) and FDA Approval Drugs.	5	2	CO3, CO5
2)	Dr. Vidya G Honde	13.Current and Emerging Trends in Ayurvedic pharmaceuticals	5	3	CO1, CO5, CO6

Dr. Tushar S. Dhawale

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Dr. Tushar S. Dhawale

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ATP (Annual Teaching Plan)

Subject: Rasashastra & Bhaishjaya Kalpana

Course: 2nd B.A.M.S. (Admitted in 2023-24)

Batch: AKODE Batch (2025-2026)

Third Term ATP (Theory & NLH)

PAPER – 2nd

Sr. No.	FACULTY NAME	POINT (TOPIC)	LECTURE HOUR	NON LECTURE HOUR (NLH)	CO
1)	Dr. Sanjay J. Dahake	5. Aushadhi Kalpa-II (Compound Drugs/Formulations) • Chemical/phytochemical composition • Pharmacodynamics and pharmacokinetics as per formulation • Therapeutic properties and its mode of action in different indications, • Awasthanusara Uses (as applicable) • Matra • Anupana • Pathyapathya • Sevana Kala • Kala maryada (duration of medication as applicable) • Side effects of medication (as applicable) • Improperly processed, avidhi sevanajanya vyadhi and their shantyupaya, • Research updates and challenges for each of the following formulations: Dashamoola Kwatha	15	14	

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	Mahamanjistadi Kwatha (AFI Part I page 59) Pushyanuga Churna (AFI-Part I, Page 113) Sudarshana Churna (AFI Part I Page 116) Lavana Bhaskara Churna (AFI-Part I, Page 114) Bilvadi Gutika (AFI Part I Page 188) Chitrakadi Gutika (AFI-Part I, Page 186) Sanjivani Vati (B.R. Jwaradhikara) Vyoshadi Vati (AFI Part III Page 253) Bala Chaturbhadra Rasa (B.R. Balarogadhikara) Simhanada Guggulu (AFI-Part I, Page 71) Yogaraja Guggulu (AFI-Part I, Page 69) Chyavanaprashavaleha (AFI Part I page 37) Dadimavaleha (Y.R. Jwarafisaradhyaya) Panchagavya Ghrita (AFI Part I Page 90) Brahmi Ghrita (AFI Part I Page 93) Narayana Taila (AFI Part I Page 138) Neelibhringadi Taila (AFI Part I Page 139) Panchaguna Taila (AFI-Part II, Page 145) Aravindasava (AFI Part I page 7) Ashokarishta (AFI Part I page 8) Kumaryasava (AFI Part I page 10) Kutajarishta (AFI Part I page 10) Gandhakadya Malahara (AFI-Part II, Page 165) Lepa Gutti (AFI Part III page 232)			
Dr. Sanjay J. Dahake	8. Anupana Prayoga for Aushadhi Kalpa Properties of Anupana Factors to be considered for selection of Anupana Dosha Aushadha Roga/ Rogi Ahara Purpose of Anupana Contraindications of Anupana Eka Kalpa Vydi anusara aneka Anupana for following Yogas 1. Kaishore Guggulu: Sarangadhar Samhita, Madhyam khanda- 7/72-81, P: 136 2. Yogaraja Guggulu: Sarangadhar Samhita Madhyam khanda- 7/56-69, P:135	5	4	CO1, CO2, CO4

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		3. Narayana Churna: Sarangadhar Samhita of Pandit Sarangadharacharya, Madhyam khanda- 7/83-91, P:123-124 4. Rasa Sindoor: Rasa Tarangini Hindi commentary of Sri Sadananda Sarma, Chaukhambha Surbharti, Murechana vigyaniya Taranga, 6/203-234, P: 125-127 5. Rasa Parpati: Rasa Tarangini of Sri Sadananda Sarma, Chaukhambha Surbharti Prakashan, Murechana vigyaniya Taranga, 6/144-153, P: 116-117 6. Kankayan Vati: Sarangadhar Samhita Surbharti Prakashan, Madhyam khanda, 7/50-55, P: 134-135)			
2)	Dr. Sachin N. Hirekar	11. Traditional and local health practices	5	2	CO1.
	Dr. Sachin N. Hirekar	10. Rational prescription along with safe dispensing of Ayurvedic formulations, Rational prescription along with safe dispensing of Ayurvedic formulations as per NABH guideline	5	1	CO1, CO2, CO3, CO4, CO5
	Dr. Sachin N. Hirekar	9. Aushadhi Prayoga Marga Introduction Types in ayurveda Advantages and disadvantages of each aushadhi prayoga marga and probable mode of action after administration of following dosage forms in below mentioned routes 1. Mukha (Oral Cavity): Vati, Gutika, Churna, Asava, Arishta, Kashaya, Avaleha, Khanda, Sneha (Ghrita/Taila), 2. Nasa (Nasal Route)- Dosage form used - Churna, taila, swarasa, arka 3. Karna (Through Ear)- Taila, Ghrita 4. Akshi (Through Eyes)- Ghrita, Taila, 5. Twak (Through Skin)- Lepa, Alepa, Pralepa, Malafara, upanaha, pradaha, abhyanga, udvartana • Shirodhara - Takra • Abhyanga- Sahacharadi Taila • Ashti Bhagnadi Taila • Vrana- Jatyadi Taila	10	5	CO2, CO4, CO5

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Kanchanwadi, Chhatrapati Sambhajinagar-431 011 (M.S.) महाराष्ट्र, रानवडी, चक्रवर्ती शाहु महाराज शिक्षण संस्था संस्थान (म.स.)
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		• Sushruta – Shankha Bhasma • Kesha Ghanata- Bringaraja Taila • Akala Palita – Hasthi Danta Masi • Indralupta – Icchabhedi Rasa • Lomashatana – Lomashatana Lepa 6. Guda (Anal Route)- Dosage forms - Vartis, taila, ghrita, kalka, churna, kashaya 7. Mutra marga (Through urethra)- Uttara Basti with Dosage forms- Taila, ghrita 8. Yoni marga (Through vagina)- Yoni Dharana, Yoni Dhavana, Yoni Pichu, Yoni			
3)	Dr. Tushar S. Dhawali	7.Nutraceuticals -Introduction Types, non-Indian nutraceuticals and their uses Ayurvedic Perspective of Nutraceuticals with special reference to dietetic preparation, rasayana with one example for each category, mode of action, nutritional value calculation, research updates and case studies on below mentioned category General Health: Kushmanda avaleha Pediatric Health: Preenana Modaka (Kashyapa) Geriatric Health: Chavanaprasha avaleha Reproductive Health: Phala Grita Women's health: Soubhagya shuntipaka, Shatavari grita Cardio-protective: Arjuna Ksheerapaka & Rasana ksheera paka Sports endeavor: Kharjuradi mantha Mental health: Brahma Rasayana	5	6	CO1, CO2, CO6, CO7
4)	Dr. Vidya G Honde	6.Dosage Forms & Cosmetic Products Definition of dosage form, -Cosmetics Advantages and disadvantages of currently available dosage forms and cosmetics. Route of their administration. Research updates on modification of classical Ayurvedic dosage forms and relevant case studies.	5	5	CO2, CO3, CO7
	Dr. Vidya G Honde	Pharmacovigilance for Ayurveda drugs	5	1	CO2, CO4, CO5

Dr. Tushar S. Dhawali

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ATP (Annual Teaching Plan)

Subject: Rasashastra & Bhaishjaya Kalpana

Course: 2nd B.A.M.S. (Admitted in 2023-24)

Batch: AKODE Batch (2025-2026)

First Term ATP

PRACTICAL

Sr. No.	FACULTY NAME	POINT (TOPIC)	PRACTICAL HOURS	CO
1)	Dr. Sachin N. Hirekar	2. Panchavidha Kashaya Kalpana & their Upakalpana Practicals 1. Swareasa Kalpana: Tulasi swarasa (Sharangdhar Samhita Madhyam Khanda 1/2), Ardraka Swarasa (Sharangdhar Samhita Madhyam Khanda 1/2), Vasaputapaka Swarasa (Sharangdhar Samhita Madhyam Khanda 1/22-23 & 34) 2. Kalka Kalpana: Nimba kalka (Sharangdhar Samhita Madhyam Khanda 5/1), Rasana Kalka (Sharangdhar Samhita Madhyam Khanda 5/1) 3. Kwatha Kalpana: Punarnavashtaka kwatha (Sharangdhar Samhita Madhyam Khanda 2/1-2, 78-79), Rasna Saptaka Kwatha (Sharangdhar Samhita Madhyam Khanda 2/1-2, 88-89) 4. Hima Kalpana: Dhanyaka Hima (Sharangdhar Samhita Madhyam Khanda 4/1, 7-8), Sarivadi Hima 5. Phanta Kalpana: Panchakola phanta (Sharangdhar Samhita Madhyam Khanda 3/1-2), Yashtimadhu phanta (AFI 1 Parishishta - 1, 2/5 Paribhasha) 6. Churna Kalpana: Sitopaladi churna (AFI Part 1, Vol. 1 A, Pg. 348), Hingwastaka Churna (AFI Part 1, Vol. 1 A, Pg. 353) 7. Pramathya: Mustadi Pramathya (Sharangdhar Samhita Madhyam Khanda 2/ 152-153) 8. Paneeya Kalpana: Shadanga Paneeya (Sharangdhar Samhita Madhyam Khanda 2/ 159-160) 9. Mantha Kalpana: Kharjuradi Mantha (Sharangdhar Samhita Madhyam Khanda 3/9-10) 10. Panaka Kalpana: Chincha Panaka (Sharangdhar Samhita Madhyam Khanda 18/34-35), Chandana Panaka 11. Ksheerapaka Kalpana: Sharangdhar Samhita Madhyam Khanda 2/175-176), Arjuna	24	CO1, CO2.

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MUHS College Code : 124101

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		Ksheera Paka - Chakradatta, Lashuna Ksheerapaka - Charaka Chikitsasthana 5/95 12. Udaka Kalpana : Tandulodaka (Sharangdhar Samhita Madhyam Khanda 1/28) Note: In each category if more than 1 practical are there any one or all may be performed.		
	Dr. Sachin N. Hirekar	3.Rasa Dravya Aushadhi Nirmana Practicals 2. Kheraliyarasayana :Ananda Bhairava Rasa(A.F.I. - I, Rasayoga, 20:3, Rasendrasarasangraha Jwaradhikara 2/103-105) /, Tribhuvana Keerti rasa(A.F.I. - I, Rasayoga, 20:20, rasamrita 9/80-81) 4. Kupipakwarasayana : Rasasindhura(A.F.I. - I, Kupipakwa Rasayana, 15:6, rasatarangini taranga 6/162-176) 5.Pottalirasayana :Rasagarbhapottali (Rasayogsagar dwitiyabhaga pottali rahasya page 582)	10	
2)	Dr. Tushar S. Dhawali	1.Paribhasha concept Based Practicals A) Dravya Paribhasha- Identification of drugs and their respective class (varga) B) Prakriya Paribhasha- 1.Swedana: Godanti Shodhana (A.F.I.-1,18:4 (Rasatarangini 11/238) Shankha Shodhana (A.F.I.-1,18:18(Rasatarangini 12/12/2) Kapardika shodhana (Rasatarangini 12/89) Guggulu Shodhana (Rasendra Sara Sangraha 1/386, Pg. 117 2. Mardana:Parada Samanya Shodhana (Ayurveda Prakasha 1/165) 3. Dhalana : Gandhaka Shodhana (A.F.I. 2 Parishishta - 2,9 Shodhana(Rasamrita 2, 3) Vanga Shodhana (A.F.I.-1,18:15 (Sharangadhara M.11/2) Yashada shodhana (Rasatarangini 19/99) 4. Nirvapa: Abhraka Shodhana (A.F.I.-1,18:1 (Rasatarangini 10/20) Tamra Shodhana (A.F.I.-1,18:5 (Ayurveda Prakasha 3/118) 5. Nirjaleekarana : Tankana Shodhana (A.F.I. 2 Parishishta - 2,15 Shodhana (Ayurveda Prakasha 2/244) Kankshi shodhana (A.F.I.-2, 14:3 (Ayurveda Prakasha 2 /258) 6. Bhavana: Hingula Shodhana (A.F.I. 2 Parishishta - 2 Shodhana (Rasamruta 1/54) 7. Bharjana: Galirika Shodhana (A.F.I. 2 Parishishta - 2,11 Shodhana (Rasaratna Samuchchaya 3/49) Hingu Shodhana (Bhavprakash Nighantu, Haritakyadi Varga, 1/101, Pg. 42) 8. Nimajjana/Sthapana: Vatsanabha shodhana (A.F.I. 2 Parishishta - 2,25 Shodhana (Rasamrita parishishta 8:145) 9. Jarana : Vanga Jarana (Ayurved Prakash 3/159) Vanga Shodhana (A.F.I.-1,18:15 (Rasamruta 3/94) 10. Murchana: Mugdha Rasa (Rasatarangini 6/9) Kajjali (A.F.I. 1 Parishishta-1, Paribhasha 21 (Rasatarangini 2/27) 11.	20	CO1, CO2, CO3, CO4.

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		Druti- Gandhaka Druti(Rasa Ratna Samucchaya 3/29) C) Pramanikarana Paribhasha-1) Bhasma Samanya Pareeksha - Abhraka Bhasma (Ayurved Prakash 2/104) Shankha Bhasma (Rasaratnasamucchaya 8/26-30) 2) Bhasma Vishesha Pareeksha: Tamra Bhasma (Dadhi/ Nimbu Pariksha)- (Bhaishajya Kalpana Vigyan, Vd. Siddhinandan Mishra, Pg. 78) D) Namburi Phased Spot Test (NPST)		
Dr. Tushar S. Dhawali		3.Rasa Dravya Aushadhi Nirmana Practicals 1. Marana :Vanga Bhasma (A.F.I. - I, Bhasma, 18:15, Rasatarangini Taranga) / Sankha Bhasma:A.F.I. - I, Bhasma, 18:18, Rasatarangini taranga 12/2) 3. Parpati : Rasa Parpati(A.F.I. - I, Parpati, 16:3, Bhaishajyaratnavali grahanirogadhikara 414-416&436-440), Sweta Parpati(A.F.I. - II, Parpati, 12:2, siddhyogsangraha ashmarimutrakruchhaadhikara) 6. Rasa : Laghusutsekhara rasa (Rasatantrasara avum siddhaprayogsangraha part-1, kharaliya rasayana page 274) 7. Loha: Navayasa loha(A.F.I. - II, loha, 17:2, Charaka samhita ch.16/70-71)/, Saptamrita loha(A.F.I. - I, loha, 21:11, Bhaishajyaratnavali shoolrogadhikara 83-84)	10	CO1, CO2, CO3,

Reshmi

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ATP (Annual Teaching Plan)

Subject: Rasashastra & Bhaishjaya Kalpana

Course: 2nd B.A.M.S. (Admitted in 2023-24)

Batch: AKODE Batch (2025-2026)

Second Term ATP				
PRACTICAL				
Sr. No.	FACULTY NAME	POINT (TOPIC)	PRACTICAL HOURS	CO
1)	Dr. Sachin N. Hirekar	4. Bhesaja Kalpana Practicals - I 1. Arka Kalpana: Yavani Arka (API, Part 2, Vol. 3, Pg. 24), Gulab Arka (API, Part 2, Vol. 3, Pg. 4) Misreya Arka (AFI, Part 1, Vol. 1 A, Pg. 106) 4. Satva Kalpana: Amruta Satva (AFI, Part 1, Vol. 1 A, Pg. 560) Ardraka Satva 6. Lavana Kalpana: Arka Lavana (API, Part 2, Vol. 1, Pg. 103) Narikela Lavana (AFI, Part 1, Vol. 1 A, Pg. 473) 8. Masi Kalpana: Triphala Masi (Rasendra Sara Sangraha Upadamsha Chikitsa) Mayura Piecha Masi (Yogratnakar, Chhardiroga, Pg. 453) 9. Upanaha: Atasi Upanaha 10. Manjana: Dasharna Manjana Churna (Bhaishajya Ratnavali Mukharog, 61/97-98) 11. Malahara Kalpana: Siktha Taila (Rasendrasangraha 4/59)	24	CO1, CO2

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		Sarjasa Malahara (Rasatantrasar & Siddha Prayog Sangraha Part 1, Pg. 849) Gandhaka Malahara (Rastarangini 8/63-85) 12. Lepa Kalpana: Dashanga Lepa (AFI, Part 1, Vol. 1 A, Pg. 487) Shatadhouta Ghrita (Sushrut Samhita Uttartantra 39/283)		
2)	Dr. Tushar S. Dhawali	5. Bhesaj Kalpana Practicals - II 1. Sneha Kalpana: Ghrita Murchana (Bhaishajya Ratnavali, Jwaradhikar, 1285), Taila Murchana (Bhaishajya Ratnavali, Jwaradhikar, 1286-1287) 2. Ghrita Kalpana: Triphala Ghrita (API, Part 2, Vol. 1, Pg. 90), Amruta Ghrita (Bhaishajya Ratnavali Vatarakta 27/126) 3. Taila Kalpana: Ksheera Bala Taila (API, Part 2, Vol. 1, Pg. 124), Arka Taila (Sharangdhar Samhita Madhyam Khanda 9/148) 4. Taila Patana: Bhallataka Taila Patana (Sushrut Samhita Chikitsa Sthana 1/92) 6. Sharkara Kalpana: Nimbu Sharkara (Rasatantrasara & Siddhaprayog Sangraha I / Paka Avaleha) 7. Ghana: Kutaja Ghana (AFI Part 2, Pg. 175), Guduchi Ghana (Ayurved Prakash 3) 9. Asava : Lohasava (Sharangdhar Samhita, Madhyam Khanda 10/34-38), Drakshasava (AFI Part 2, 1:1) 10. Arishta: Arjunarishta (Bhaishajya Ratnavali Hridrog), Takrarishta (Charak Samhita Chikitsa 15/120) 11. Shukta Kalpana: Kanji (Sharangdhar Samhita, Madhyam Khanda 10/12), Madushukta (Bhaishajya Ratnavali Karnaroga 62/23-24)	22	CO1, CO2
3)	Dr. Vidya G. Honde	6. Dosage Forms & Selfcare Products Practicals 1. Solid dosage forms: Granules/ Lozenges, Tablets (Pharmaceutics by R.M. Mehta) 2. Liquid Dosage Forms: Syrup/Suspension/Emulsion/Liquid (Pharmaceutics by R.M. Mehta)	22	CO1, CO2, CO6

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	3. Semisolid Dosage: Cream/Gel/Ointment/Pain Balm (Pharmaceutics by R.M. Mehta) 4. Hair Care: Shampoo (A Handbook of Cosmetics by B M Mithal & R N Saha 8th chapter) 5. Body Care: Soap/Perfume (Pharmaceutics by R.M. Mehta) 6. Face Care: Face pack / Talcum Powder (A Handbook of Cosmetics by B M Mithal & R N Saha 3rd chapter) 7. Lip Care: Lip Balm, Lipstick (A Handbook of Cosmetics by B M Mithal & R N Saha 4th chapter) 8. Oral Care: Tooth Paste/ Mouth Wash (A Handbook of Cosmetics by B M Mithal & R N Saha 19th & 20th chapter) 9. Foot Care: Foot Cream (A Handbook of Cosmetics by B M Mithal & R N Saha 5th chapter) 10. Hand Disinfectant: Hand Sanitizer ((Pharmaceutics by R.M. Mehta) 11. Skin Care: Moisturizer/Sunscreen Lotion (A Handbook of Cosmetics by B M Mithal & R N Saha 6th chapter)		
Dr. Vidya G. Honde	10. Quality Control Practicals 1 Minerals & Metals Mineral Identification - Physical form – Crystal and Amorphous - Hardness on Moh's scale - Brittleness test - Fracture and Cleavage - Streak Test - Luster	38	CO1, CO2, CO3, CO5.

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	2 Plant Material • Estimation of Foreign matter • Specific Gravity • Refractive Index 3. Prepared Dosage forms A. Solid Dosage Forms Rasaushadhi • Bhasma and Pisthi Pariksha • Determination of Moisture content 4. Kashtoushadhi a. Churna • Particle Size • Bulk Density • Determination of Ash Value – Total Water Soluble/Acid Insoluble ash b. Tablets • Uniformity in Weight and Size • Tablet Hardness B. Semisolid Dosage forms • Moisture Content • Microbial Load C. Liquid Dosage Forms • PH Value • Refractive Index • Specific Gravity • Saponification Value • Iodine Value • Acid Value • Viscosity	
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Kanchanwadi

Principal

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



Kanchanwadi, Chhatrapati Sambhajinagar-431 011. (M.S.) | कंचनवाडी, देवग रोड, छत्रपती संभाजीनगर - ४३१ ०११ (एम. एस.)

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Ras-Shastra

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Head of The Dept.

Ras-Shastra & B. Kalpana
C.S.M.S.S. Ayurved College,
Chhatrapati Sambhajinagar,



NAAC ACCREDITED WITH B++, UGT "A" Grade, NABH & ISO 21001:2018 CERTIFIED

छत्रपती शाहू महाराज शिक्षण संस्था संघर्षित

आयुर्वेद महाविद्यालय व रुग्णालय

CHHATRAPATI SHAHU MAHARAJ SHIKSHAN SANSTHA'S

AYURVED MAHAVIDYALAYA & RUGNALAYA

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संस्थाचे नाव : आयुर्वेद महाविद्यालय व रुग्णालय
संस्थाचे पत्ता : कान्हावडी, छत्रपती संभाजीनगर - ४२१ ०५१ (एच. एस.)
संस्थाचे फोन : (०२४०) २६४६२०१, २६४६२०२, २६४६२०३
संस्थाचे ईमेल : principal@csmsayurved.com, principal@csmsayurved.com

(Annual
Plan)

ATP
Teaching

Subject: Rasashastra & Bhaishjaya Kalpana

Course: 2nd B.A.M.S. (Admitted in 2023-24)

Batch: AKODE Batch (2025-2026)

Third Term ATP				
PRACTICAL				
Sr. No.	FACULTY NAME	POINT (TOPIC)	PRACTICAL HOURS	CO
1)	Dr. Sachin N. Hirekar	7.Field Visit/ Study Tour GMP Certified Pharmacy Visit X 2 Pharmacy (1 classical formulations and 1 Proprietary formulations/Having both Manufacturing facility) NABL Accredited drug Testing Laboratory/Research and Development Unit Combined out campus/ Field visit may be planned wherever feasible	24	CO1, CO3, CO4, CO5, CO6
2)	Dr. Tushar S. Dhawali	9. DrugDispensing Practical Drug Dispensing practical for method of Dispensing different dosage forms, them packing for OPD and IPD patients	6	CO1, CO3, CO4
3)	Dr. Vidya G. Honde	8.Hospital IPD Practical Hospital IPD Practical: Formulation prescription, method administration, dose, time, duration, Pathya, Apathya advised - Minimum 10 case sheet record of different dosage forms prescribed for particularease/ disease	10	CO1, CO2, CO3, CO4

Principal

Principal

Chhatrapati Shahu Maharaj Shikshan Sanstha's

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Chhatrapati Sambhaji Nagar.

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