

RASASHASTRA DEPARTMENT
TILAK AYURVED MAHAVIDYALAYA, PUNE
ACADEMIC TERM PLAN
SUBJECT-RASASHASTRA & BHAISHAJYA KALPANA
COURSE: II BAMS (2021) BATCH: JANUARY 2025 -APPEAR
DURATION : October 2023 to January 2025

Paper I Ayurvediya Aushadhi Nirmana Vigyana						
Sr No	List of Topics	Term	Faculty	Lecture hours	Faculty	Non-Lecture hours
1	1.Chronological development of Ayurvediya Aushadhi Nirmana	1	Dr. Y.Patil	2	Dr. Yoginee Patil	1
2	2.Paribhasha(Terminology)	1	All Faculty	8	Dr. Yoginee Patil, Dr. Vinaya Dixit	4
3	3. Adharbhuta Siddhanta (Application of fundamental principles)	1	All Faculty	4	Dr. Indira Ujagare	2
4	4.Yantropakaranani- I (Equipments and machineries) Principles involved, currently used yantras, their	1	Dr.M. Akkalkotkar	6	Dr. Indira Ujagare	4
5	5.Yantropakaranani -II (Equipments, fuel and Heating Devices)	1	Dr. Indira Ujagare Dr. A. Bodade	5	Dr.M. Akkalkotkar	4
6	6.Kalpana Nirmana I (Primary & Secondary dosage forms)	1	Dr. Y.Patil, Dr. Vinaya Dixit	6	Dr. A. Bodade	4
7	7.Kalpana Nirmana-II (Method of Preparation of different dosage forms & Dietary Supplements)	1	Dr. Indira Ujagare Dr. Y.Patil, Dr. Vinaya Dixit Dr. A. Bodade	5	Dr. A. Bodade	4
8	8.Rasa Dravya Parichaya- I	2	Dr. Indira Ujagare Dr. Vinaya Dixit Dr. A. Bodade	12	Dr. A. Bodade	4
9	9.Rasa Dravya Parichaya II	2	Dr.M. Akkalkotkar	7	Dr. A. Bodade	6
10	10.Rasadravaya Parichaya III	2	Dr. Yoginee Patil	3	Dr. A. Bodade	6
11	11.Kalpana Nirman -III (Method of Preparation of different dosage forms)	2	All Faculty	8	Dr. A. Bodade	6
12	12.Chaturvidha Rasayana	2	Dr. Indira Ujagare Dr. Y.Patil, Dr. Vinaya Dixit Dr. A. Bodade	4	Dr. Yoginee Patil Dr. Vinaya Dixit	4
13	13.Current and emerging trend in Ayurvedic pharmaceuticals	3	Guest lecture	3	Dr.M. Akkalkotkar	4
14	14.GMP(Schedule T) & Regulatory aspects of Ayurvedic drugs	3	Dr. Indira Ujagare + Guest lecture	2	Dr. Indira Ujagare Dr. A. Bodade	4
Total Marks : 100				75 hr		57 hr

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Paper 2- Ayurvediya Aushadhi Prayoga Vigyana						
Sr. No	List of Topics	Term	Faculty	Lecture hours	Faculty	Non-Lecture hours
15	1.AushadhiPrayogaVigyana	1	Dr. Y.Patil	1	Dr. V.Dixit	2
16	2. Singledrug(Herbal&Mineral)	1	All Faculty	8	Dr. Y.Patil	2
17	3. Single drug(Bhasma, Shuddha&Pishti)	2	All Faculty	12	Dr. Y.Patil	6
18	4. AushadhiKalpa-I (Compound formulations)	2	All Faculty	16	Dr. A. Bodade	4
19	5. AushadhiKalpa-II (Compound Drugs/Formulations)	3	All Faculty	14	Dr. Y.Patil	2
20	6.Dosage Forms & Cosmetic Products	3	Guest lecture	5	Dr. I. Ujagare Dr. A. Bodade	2
21	7.Nutraceuticals Introduction	3	Guest lecture + Dr. Y.Patil	6	Dr. V.Dixit	1
22	8.Anupana Prayoga for AushadhiKalpa	3	Dr. Indira Ujagare	4	Dr.M. Akkalkotkar	1
23	9.Aushadhi PrayogaMarga	3	Dr. Y.Patil, Dr. V.Dixit Dr. A. Bodade Dr.M. Akkalkotkar	5	Dr. Y.Patil	1
24	10. Rational prescription along with safe dispensing of Ayurvedic formulations.	3	Dr. A. Bodade	1	Dr. V.Dixit	4
25	11.Traditional & Local health Practices	3	Dr.M. Akkalkotkar	2	Dr. A. Bodade	4
26	12.Pharmacovigilance for Ayurveda drugs	3	Integration with Dravyagun Dept.	1	Guest lecture	4
Total Marks : 100				75 hr		33 hr

HOD
(Sign & stamp)

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PRACTICAL

S.No	Name of practical	Term	Faculty	Practical hrs
1	<p>1.ParibhashaconceptBasedPracticals</p> <p>A)DravyaParibhasha- Identificationof drugsandtheirrespectiveclass(varga)</p> <p>B)PrakriyaParibhasha-</p> <p>1.Swedana: GodantiShodhana ShankhaShodhana Kapardikashodhana GugguluShodhana</p> <p>2.Mardana: ParadaSamanyaShodhana</p> <p>3.Dhalana: GandhakaShodhana VangaShodhana Yashadashodhana</p> <p>4.Nirvapa: AbhrakaShodhana TamraShodhana</p> <p>5.Nirjaleekarana: TankanaShodhana Kankshishodhana</p> <p>6.Bhavana: HingulaShodhana</p> <p>7.Bharjana: GairikaShodhana HinguShodhana</p> <p>8.Nimajjana/Sthapana: Vatsanabhashodhana</p> <p>9.Jarana: VangaJaran VangaBhasma</p> <p>10.Murchana: MugdhaRasa Kajjali</p> <p>11.Druti- GandhakaDruti</p> <p>C)PramanikaranaParibhasha-</p> <p>1)BhasmaSamanyaPareeksha AbhrakaBhasma ShankhaBhasma</p> <p>2)BhasmaVisheshaPareeksha: TamraBhasma (Dadhi/ NimbuPariksha)-</p> <p>D)NamburiPhasedSpotTest (NPST)</p>	1	<p>All practical will be conducted batch wise in following manner -</p> <p>Each batch will perform practical once a week. Per week allotment of practical will be as follows-</p> <p>Dr. YogineePatil- Batch A , Dr. Vinaya Dixit- Batch B, Dr. A. Bodade - Batch C</p>	20

2	<p>2.Panchavidha KashayaKalpana& their UpakalpanaPracticals</p> <p>1.SwarasaKalpana: Tulasiswarasa ArdrakaSwarasa VasaputapakaSwarasa</p> <p>2.KalkaKalpana: Nimbakalka Rasona Kalka</p> <p>3.KwathaKalpana: Punarnavashtakakwatha RasnaSaptakaKwatha</p> <p>4.HimaKalpana: DhanyakaHima SarivadiHima</p> <p>5.PhantaKalpana: Panchakolaphanta Yashtimadhuphanta</p> <p>6.ChurnaKalpana: Sitopaladichurna Hingwastakachurna</p> <p>7.Pramathya: MustadiPramathya</p> <p>8.PanceyaKalpana: ShadangaPanceya</p> <p>9.ManthaKalpana: KharjuradiMantha</p> <p>10.PanakaKalpana: ChinchaPanaka ChandanaPanaka</p> <p>11.KsheerapakaKalpana: ArjunaKsheeraPaka - LashunaKsheerapaka -</p> <p>12. UdakaKalpana : Tandulodaka</p>	1	<p>Dr.YogineePatil- Batch A ,</p> <p>Dr.Vinaya Dixit- Batch B,</p> <p>Dr. A. Bodade - Batch C</p>	24
3	<p>3.Rasa DravyaAushadhiNirmanaPracticals</p> <p>1. Marana : VangaBhasma Sankha Bhasma</p> <p>2. Kharaliyarasayana : AnandaBhairava Rasa TribhuvanaKeerti rasa</p> <p>3. Parpati : Rasa Parpati SwetaParpati</p> <p>4. Kupipakwarasayana Rasasindhura</p> <p>5. Pottalirasayana : Rasagarbhapottali</p> <p>6. Rasa : Laghusutsekhararasa</p> <p>7. Loha: Navayasaloha Saptamritaloha</p>	1	<p>Dr.YogineePatil- Batch A ,</p> <p>Dr.Vinaya Dixit- Batch B,</p> <p>Dr. A. Bodade - Batch C</p>	20

4	<p>4.Bheshaja Kalpana Practicals –I</p> <p>1. Arka Kalpana: Yavani Arka Gulab Arka Misreya Arka</p> <p>2. Vati Kalpana: Agni Tundi Vati Chitrakadi Vati Lavangadi Vati</p> <p>3. Guggulu Kalpana: Triphala Guggulu Kaishor Guggulu</p> <p>4. Satva Kalpana: Amruta Satva Ardra Ka Satwa</p> <p>5. Varti Kalpana: Phala Varti Chandrodaya Varti</p> <p>6. Lavana Kalpana: Arka Lavana Narikela Lavana</p> <p>7. Kshara Kalpana: Apamarga Kshara Kshara Sutra Preparation</p> <p>8. Masi Kalpana: Triphala Masi Mayura Piccha Masi</p> <p>9. Upanaha: Atasi Upanaha</p> <p>10. Manjana: Dashana Samskarachurna</p> <p>11. Malahara Kalpana: Siktha Taila Sarjarasa Malahara Gandhaka Malahara</p> <p>12. Lepa Kalpana: Dashanga Lepa Shatadhouta Ghrita</p>	2	<p>Dr. Yoginee Patil- Batch A , Dr. Vinaya Dixit- Batch B, Dr. A. Bodade - Batch C</p>	24
5	<p>5.Bheshaja Kalpana Practicals –II</p> <p>1. Sneha Kalpana: Ghrita Murchana Taila Murchana</p> <p>2. Ghrita Kalpana: Triphala Ghrita Amruta Ghrita</p> <p>3. Taila Kalpana: Ksheera Bala Taila Arka Taila</p> <p>4. Taila Patana: Bhallataka Taila Patana</p> <p>5. Avaleha Kalpana: Vasavaleha Kushmanda Avaleha</p> <p>6. Sharkara Kalpana:</p>	2	<p>Dr. Yoginee Patil- Batch A , Dr. Vinaya Dixit- Batch B, Dr. A. Bodade - Batch C</p>	22

	<p>NimbuSharkara</p> <p>7. Ghana: Kutaja Ghana Guduchi Ghana</p> <p>8. Khandakalpana: HaridraKhanda NarikelaKhanda</p> <p>9. Asava : Lohasava Drakshasava</p> <p>10. Arishta: Arjunarishta Takararishta</p> <p>11. ShuktaKalpana: Kanji Madushukta</p>			
6	<p>6. Dosage Forms & Self-care Products Practicals</p> <p>1. Solid dosage forms: Granules/ Lozenges</p> <p>2. Liquid Dosage forms: Syrup/Suspension/Emulsion/Liniment</p> <p>3. Semisolid Dosage: Cream/Gel/Ointment/Pain Balm</p> <p>4. Hair Care: Shampoo</p> <p>5. Body Care: Soap/Perfume</p> <p>6. Face Care: Face pack / Talcum Powder</p> <p>7. Lip Care: Lip Balm, Lipstick</p> <p>8. Oral Care: Tooth Paste/ Mouth Wash</p> <p>9. Foot Care: Foot Cream</p> <p>10. Hand Disinfectant: Hand Sanitizer</p> <p>11. Skin Care: Moisturizer/Sunscreen Lotion</p>	2	<p>All Faculty-</p> <p>Dr. Indira Ujagare</p> <p>Dr. M. Akkalkotkar</p> <p>Dr. Yoginee Patil</p> <p>Dr. Vinaya Dixit</p> <p>Dr. Ashwini. Bodade</p>	22
7	<p>7. Field Visit/ Study Tour</p> <p>GMP Certified Pharmacy Visit X</p> <p>2 Pharmacy (1 classical formulations and 1 Proprietary formulations/Having both Manufacturing facility)</p> <p>NABL Accredited drug Testing Laboratory/Research and Development Unit</p> <p>Combined out campus/ Field visit may be planned wherever feasible</p>	3	<p>All Faculty-</p> <p>Dr. Indira Ujagare</p> <p>Dr. M. Akkalkotkar</p> <p>Dr. Yoginee Patil</p> <p>Dr. Vinaya Dixit</p> <p>Dr. Ashwini. Bodade</p>	24
8	<p>8. Hospital IPD Practical</p> <p>Hospital IPD Practical: Formulation prescription, method administration, dose, time, duration, Pathya, Apathya advised -</p>	3	<p>Dr. Yoginee Patil- Batch A , Dr. Vinaya Dixit- Batch B, Dr. A. Bodade - Batch C at Seth Tarachand Ramnath Charitable</p>	10

	Minimum 10 case sheet record of different dosage forms prescribed for particular case/disease		Ayurvedic Hospital	
9	9. Drug Dispensing Practical Drug Dispensing practical for method of Dispensing different dosage forms, their packing for OPD and IPD patients	3	Dr. Yoginee Patil- Batch A , Dr. Vinaya Dixit- Batch B, Dr. A. Bodade - Batch C at Seth Tarachand Ramnath Charitable Ayurvedic Hospital	6
10	10. Quality Control Practicals 1 Minerals & Metals Mineral Identification <ul style="list-style-type: none"> • Physical form – Crystal and Amorphous • Hardness on Moh's scale • Brittleness test • Fracture and Cleavage • Streak Test • Luster 2 Plant Material <ul style="list-style-type: none"> • Estimation of Foreign matter • Specific Gravity • Refractive Index 3. Prepared Dosage forms <p>A. Solid Dosage Forms Rasaushadhi</p> <ul style="list-style-type: none"> • Bhasma and Pishti Pariksha • Determination of Moisture content 4. Kashtoushadhi <p>a. Churna</p> <ul style="list-style-type: none"> • Particle Size • Bulk Density • Determination of Ash Value – Total Water Soluble/Acid Insoluble ash <p>b. Tablets</p> <ul style="list-style-type: none"> • Uniformity in Weight and Size • Tablet Hardness <p>B. Semisolid Dosage forms</p> <ul style="list-style-type: none"> • Moisture Content • Microbial Load <p>C. Liquid Dosage Forms</p> <ul style="list-style-type: none"> • PH Value • Refractive Index • Specific Gravity • Saponification Value • Iodine Value • Acid Value • Viscosity 	2	Visiting Faculty / Fergusson College Visiting Faculty / Analytical expert	38
Total Hr				210



HOD

(Sign & stamp)

Professor and Head
Department of Rasashastra
Tilak Ayurved Mahavidyalaya, Pune