

TILAK AYURVED MAHAVIDYALAYA
583/2, Rasta Peth, Pune 411011
Academic Term Planner-UG

Course/ Class: II Professional BAMS (2021) January 2025 Appearing
Subject- Dravyaguna Theory
Subject Code: AyUG- DG
First term

Duration: From Oct 2023 to March 2024
Name of the Dravyaguna Departmental Faculty:

Dr. Apoorva Sangoram	Professor & HOD
Dr. Asmita Jadhav	Associate Professor
Dr. Sneha Kulkarni	Associate Professor
Dr. Pradnya Gathe	Associate Professor
Dr. Gauri Gangal	Assistant Professor

Sr No	List of Topics	Term	Lecture hours	Non- Lecture hours
1	1. Dravyaguna Vigyana	1	1	1
2	2. Dravya 2.1 Panchabhoutikatwa of Dravya Classification of Dravya based on Utpattibheda, Yonibheda, Prayogabheda, Prabhavbheda, Doshagnabheda, Rasabheda and Karmbheda	1	5	4
3	3. Guna 3.1 Panchabhoutikatva, characteristics and classification 3.2 Gurvadiguna and its karma on Dosha, Dhatu and Mala, clinical application and research updates Paradiguna with examples, clinical applications and research updates	1	4	2
4	4. Rasa 4.1 Meaning of "Rasa" in various contexts 4.2 Shadrasa in relative correlation with taste of chemical constituents 4.3 Rasotpatti and Panchabhoutika constitution of Shadrasa 4.4 Rasopalabdhi and pathway of taste perception & sites of taste receptors in the body 4.5 Rasa -Lakshana, Guna & Karmas of each Rasa on Dosha, Dhatu and Mala 4.6 Atiyogalakshana, 4.7 Clinical application and Research updates of Shadrasa Anurasa Rasa Sevanakrama of Aushadha	1	7	4
5	5. Vipaka 5.1 Trividha Vipaka 5.2 Vipak karma on Dosha, Dhatu and Mala	1	3	1

	5.3 Clinical application and Research updates Vipakopalabdhi (Determination of Vipaka) & Taratamya (Degree of variation)			
6	6. Virya 6.1 Difference between Guna and Virya 6.2 Karmas of Virya on Dosha, Dhatu and Mala 6.3 Clinical application and Research updates Viryaopalabdhi (Determination of Virya) and understanding of Virya with respect to actions of active constituents	1	2	2
7	7. Prabhava 7.1 Samanapratyayarabdha and Vichitrapratyayarabdha Clinical application of Prabhava and Research updates	1	2	1
8	8. Interrelation of Rasa-Guna-Virya-Vipaka-Prabhava Interrelation of Rasa-Guna-Virya-Vipaka-Prabhava with respect to their strength-Pharmacodynamics	1	1	2
9	Individual Karma, correlation with contemporary pharmacological action, examples, clinical application and research updates 9.1 Deepana 9.2 Pachana 9.3 Samshodhana 9.4 Samshamana 9.5 Anulomana 9.6 Sransana 9.7 Bhedana 9.8 Rechana 9.9 Chhedana 9.10 Lekhana 9.11 Grahi 9.12 Sthambhana 9.13 Madakari 9.14 Pramathi 9.15 Abhishyandi 9.16 Vyavayi 9.17 Vikashi 9.18 Rasayana 9.19 Vajeekarana 9.20 Medhya	1	9	5
10	Karmas of Dashemani Gana	1	12	3
	Total hour		46	25

TILAK AYURVED MAHAVIDYALAYA**583/2, Rasta Peth, Pune 411011****Academic Term Planner -UG****Course/ Class: II Professional BAMS (2021) January 2025 Appearing****Subject- Dravyaguna Theory Term : II****Duration: From April 2024 to September 2024****Second term****Name of the Dravyaguna Departmental Faculty:**

Dr. Apoorva Sangoram	Professor & HOD
Dr. Asmita Jadhav	Associate Professor
Dr. Sneha Kulkarni	Associate Professor
Dr. Pradnya Gathe	Associate Professor
Dr. Gauri Gangal	Assistant Professor

Sr. No	List of Topics	Term	Lecture hours	Non- Lecture hours
1.	1. Bheshajavacharaniya (Criteria's to be considered for selection of drugs in vyadhis)	2	1	6
2.	2.1 Dravya (Drug) Nama-Guna-Karma Jnana Amalaki Aragwadha Arjuna Ashoka Ashwagandha Ativisha Bala Beejaka Bhallataka Bharangi Bhrungaraja Bhumyamalaki Bilva Brahmi Chandana Chitraka Dadima Dhataki Dhamasa Eranda Gokshura Guduchi Guggulu Haridra Haritaki Hingu Jambu Jyotishmati Kanchanara Kantakari	2	45	10

Kapikachhu Karkatshrungi Jatamansi Katuki Khadira Kumari Kutaja Latakaranja Lodhra Agnimanth Ahiphena (NK) Ajamoda (DK) Apamarga (DK)Asthishrunkhala Bakuchi Bruhati Chakramarda Dhanyaka Ela Gambhari Japa Jatiphala Jeeraka (DK) Kalamegha Kampillaka Kulatha (NK) Kumkum Lajjalu Lavanga			
Total Hours		46	16

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|-------------------------|---------------------|
| 1. Dr. Apoorva Sangoram | HOD& Professor |
| 2. Dr. Asmita Jadhav | Associate Professor |
| 3. Dr. Sneha Joshi | Associate Professor |
| 4. Dr. Pradnya Gathe | Associate Professor |
| 5. Dr. Gauri Gangal | Assistant Professor |

Sr.No	List of Topics	Term	Lecture hours	Non- Lecture hours
1	Principles of General Pharmacology 11. Drug definition, drug dosage forms, route of drug administration, pharmacokinetics (ADME), pharmacodynamics, Drug dose, principles of drug action, mechanism of drug action & bio- availability 11.1 Drugs Acting on Central Nervous System: Anaesthetics, Sedative Hypnotics, Antiepileptics, Antiparkinsonian, Antidepressants, Antianxiety Drugs, Opioid - Analgesics Drugs 11.2 Drugs Acting on Peripheral (somatic) Nervous System: Skeletal Muscle Relaxants, Local Anaesthetics 11.3 Autacoids and Related Drugs: Nonsteroidal, Anti-inflammatory	3	15	1

	<p>(NSAIDs)/Antipyretic and Analgesics Drugs</p> <p>11.4 Drugs for Respiratory Disorders: Bronchodilators, Aerosols/ Inhalants Expectorants, Antitussive Drugs</p> <p>11.5 Cardiovascular Drugs: Antihypertensive, Antianginal Drugs</p> <p>11.6 Drugs Acting on Kidney: Diuretics Drugs Affecting Blood: Haematinics, Coagulants, Anticoagulants, Hypolipidaemic Drugs</p> <p>11.7 Gastrointestinal Drugs: Antacid, Carminatives, Digestants, Antiemetics, Laxatives, Antidiarrhoeal, Hepatoprotective Drug</p> <p>11.8 Antibacterial Drugs: Antibiotics, Antitubercular Drugs</p> <p>11.9 Antifungal, Antiviral, Antimalarial and Antihelmintic Drugs</p> <p>11.10 Hormones and Related Drugs: Thyroid Hormone, Thyroid Inhibitors, Insulin, Oral Anti-diabetic, Hormonal Contraceptives, Uterine Stimulants, Uterine Relaxants Drugs</p> <p>11.11 Miscellaneous Drugs: Antiseptics and Disinfectants, Vaccines, Vitamins, Water imbalance and IV fluids</p>			
2	<p>Mishraka Gana</p> <p>Mishrakagana: its composition, guna karma and therapeutic uses.</p> <ol style="list-style-type: none"> 1. Brihatpanchamoola. 2. Laghupanchamool 	3	6	2

	3. Vallipanchamoola. 4. Kantakapanchamoola. 5. Trinapanchamoola. 6. Panchavalkala. 7. Triphala. 8. Trikatu. 9. Trimada. 10. Chaturusana. 11. Panchakola. 12. Shadusana 13. Chaturbeeja. 14. Trijataka. 15. Chaturajataka. 16. Panchatikta. 17. Chaturbhadra. 18. Trikarshika.			
3	Nomenclature of dravya as per Nighantu, Vedic taxonomy and Botany	3	0	2
4	Prashasta Bsheshaja, Bsheshaja Pariksha and drug evaluation method with correlation as per Pharmacognosy	3	1	2
5	Dravyasangrahana and Drug collection methods as per GFCP (Good Field collection practices)	3	1	0
6	GCP (Good cultivation practices), seed bank, conservation of medicinal plants, knowledge about RET (Rear, Endangered & Threatened) medicinal plants.	3	1	0
7	Abhava Pratinidhi Dravya (substitutes)	3	1	1
8	Classifications and techniques of aqueous and alcoholic extracts	3	0	2

9	Adverse drug reaction and Pharmacovigilance with recent updates	3	1	2
10	NMPB (National Medicinal Plant Board), CCRAS (Central Council of Research in Ayurveda Sciences), API (Ayurvedic Pharmacopeia of India), GCTM (Global Centre for Traditional Medicine), PCIMH (Pharmacopeia Commission of Indian Medicine and Homeopathy)	3	1	0
11	Vrikshayurveda and Ethno-medicine	3	1	1
12	Network pharmacology and Bioinformatics	3	1	1
13	<p>Paper 2 Applied Dravyaguna</p> <p>2.2 Dravya (Drugs) Nama - Guna-Karma-Jnana</p> <ul style="list-style-type: none"> • Madanphala • Mandukaparni • Manjishta • Maricha • Meshashrungi • Methika • Musta • Nagkeshar • Nimba • Nirgundi • Palasha • Pashanabheda • Patha • Pippali • Punarnava • Rasna • Rasona • Sarapagandha • Sairayak • Sariva • Shallaki • Shalmali(Mocharasa) • Shankhapushpi • Shatavari • Shigru • Shunthi • Talisapatra (NK) 	3	29	20

	<ul style="list-style-type: none"> • Trivrut • Tulasi • Twak • Usheera • Vacha • Varuna • Vasa • Vatsanabha • Vibhitaki • Vidanga • Yashtimadhu 			
Total Hours			58	34

Total Hours

	Lecture Hours	Non Lecture Hours
I term	46	25
II term	46	16
III term	58	34
Total	150	75

Apoorva Sangoram

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Subject Code: AyUG- DG

Duration From: Oct 2023 to January 2025

Name of the Dravyaguna Departmental Faculty:

Dr. Apoorva Sangoram	Professor & HOD
Dr. Asmita Jadhav	Associate Professor
Dr. Sneha Kulkarni	Associate Professor
Dr. Pradnya Gathe	Associate Professor
Dr. Gauri Gangal	Assistant Professor

S. No	List of Topics	Term	Hours
1.	Assessment and understanding the relation between Parthivatwa & subjective/objective parametric tests	1	10
2.	Assessment of objective parametric measures of Guna	1	12
3.	Assessment of Rasa	1	6
4.	Comparative organoleptic and macroscopic examination	1	23
5.	Microscopic Identification of genuine and adulterated drug	1	4
6.	Demonstration of skills to identify the medicinal plants in the college garden.	1	10
7.	Out campus visit (Cultivated gardens, Tissue culture lab, Herbaria, Pharmacognosy lab, Quality control lab and Forest plant demonstration)	1	10
8.	Dravya prayoga	1	12
9.	Physico-chemical study	2	8
10.	Phytochemical	2	4
11.	Thin Layer Chromatography (TLC) technique	2	2
12.	Demonstration of skills to identify the medicinal plants in the college garden	2	10
13.	Out campus visit (cultivated gardens & In-situ plant demonstration)	2	10
14.	Ekala dravya prayoga	2	10
15.	Different Cultivation technique including methods mentioned in Vrikshayurveda	2	6
16.	Exercise on Network pharmacology	3	6

17.	Preparations of digital herbarium	3	2
18.	Demonstration of skills to identify the medicinal plants in the college garden	3	10
19.	Out campus visit (cultivated gardens & In-situ plant demonstration)	3	10
20.	Ekala dravya prayoga	3	10
	Total Hours		175



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