

TILAK AYURVED MAHAVIDYALAYA
583/2, Rasta Peth, Pune 411011
Academic Term Planner-PG
Course/ Class: 2nd & 3rd PG Batch: Academic year 2023-2024

Subject- Dravyaguna

Name of the Dravyaguna Departmental Faculty:

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

Point No	Content	Lecture Hour
Paper I Namarupa Vigyana		
1	Importance of Namagyana of Dravya, origin of Namarupagyana of Aushadhi in Veda, etymological derivation of various names and synonyms of Aushadhi.	06
2	Rupagyana in relation to Aushadhi. Sthula and Sukshma description (Macroscopic and Microscopic study) of different parts of the plant.	06
3	Synonyms of dravyas (aushadha and Ahara) mentioned in Vedic compendia, Brihatrayee, Bhavaprakasha and Rajanighantu.	03
4	Basonyms, synonyms and distinguish morphological characteristic features of medicinal plants listed in Ayurvedic Pharmacopoeia of India (API).	01
5	Knowledge of Anukta dravya (Extrapharmacopial drugs) with regards to namarupa.	02
6	Sandigdha dravya (Controversial drugs) vinischaya.	02
7	Knowledge of biodiversity, endangered medicinal species.	01
8	Knowledge of TKDL, Introduction to relevant portions of Drugs and cosmetic act, Magic remedies Act, Intellectual Property Right (IPR) and Regulations pertaining to Import and Export of Ayurvedic drugs.	01
9	Knowledge of tissue culture techniques Knowledge of Genetically Modified Plants	02
Paper II Guna Karma Vigyan		
1	Fundamental principles of drug action in Ayurveda and conventional medicine.	05
2	Detailed study of rasa-guna- virya- vipaka-prabhava and karma with their applied aspects and commentators (Chakrapanidatta, Dalhana, Arunadatta, Hemadri and Indu) views on them.	03
3	Comprehensive study of karma as defined in Brihatrayee & Laghutrayee	05

4	Detailed study of Guna and Karma of dravyas listed in API and BhavaprakashaNighantu along with current research review.	13
5	Detailed study of aharadravya/ ahara varga ascribed in Brihatrayee and variousnighantus along with Kritanna varga.	01
6	Pharmacological principles and knowledge on drugs acting on various systems.	01
7	Basic knowledge on experimental pharmacology for the evaluation of - analgesic, anti pyretic, anti inflammatory, anti diabetic, anti hypertensive, hypo lipidemic, anti ulcer, cardio protective, hepatoprotective, diuretics, adaptogens, CNS activites.	15
8	Knowledge on Heavy metal analysis, pesticidal residue and aflatoxins	03
9	Knowledge on evaluation of anti microbial and antimycotic activities.	03
Paper III Prayogavigyana		
1	Bhaishjya Prayog Siddhant [Principles of drug administration] - Bhaishajya Marga(routes of drug administration), Vividha Kalpana (Dosage forms), Principles of Yoga Vijnan(compounding), Matra (Dosage), Anupana (Vehicle), Aushadha grahankal (Time of drug administration), Sevankal avadhi (duration of drug administration), Pathyapathya (Dos' /Donts' /Contraindications), complete Prescription writing (Samagra Vyavastha patraka)	06
2	Samyoga- Viruddh Sidhanta and its importance	06
3	Amayika prayoga (therapeutic uses) of important plants ascribed in as well as Brihatrayee, Chakradutta, Yoga ratnakara and Bhavaprakasha.	01
4	Knowledge of Pharmaco-vigilance in Ayurveda and conventional system of medicine.	06
5	Knowledge of clinical pharmacology and clinical drug research as per GCP guide lines. Knowledge of Pharmacogenomics	02
Paper IV		
1	Etymology of nighantu, their relevance, utility and salient features	01
2	Chronological history of the following Nighantus with their authors name, period and content- Paryaya ratnamala, Dhanvantari nighantu, Hridayadipika nighantu, Ashtanga nighantu, Rajanighantu, Siddhamantra nighantu, Bhavaprakasha nighantu, Madanpala nighantu, Rajavallabha nighantu, Madhava Dravyaguna, Kaiyadeva nighantu, Shodhala nighantu, Saligram nighantu, Nighantu ratnakara, Nighantu adharsha and Priya nighantu	15
3	Detailed study Aushadha kalpana mentioned in Sharangadhara samhita and Ayurvedic Formulary of India (AFI).	05

4	General awareness on poshaka ahara(Nutraceuticals),Varnya(cosmoceuticals), food additives, Excipients etc.	04
5	Knowledge of plant extracts, colors, flavors and preservatives.	04
6	Review of important modern works on classical medicinal plants published byGovt of India, department of AYUSH and ICMR.	04

Practicals

Point no	Content	Lectures Hour
1	Evaluation of Crude drugs: Macro and microscopic methods of examining five drugs of each of different useful parts of plants, including their powders.	05
2	Phytochemical evaluation of raw material: Quantitative standards like foreign matter, extractive (water and alcohol), ash value, acid insoluble ash and TLC separation of various parts of minimum two plants of Ayurvedic Pharmacopoeia of India.	08
3	Yoga vijnana : Preparation of two yoga of each kalpana of Ayurvedic Formulary of India:	03
4	Experiments on Animals Pharmacology: <ul style="list-style-type: none"> ✓ Rasa nirdharana by Taste Threshold method of minimum one drug for each ofrasas. ✓ Observation of animal experimentation models (both in vitro and in vivo)- 05 models for possible rasadi gunas. 	03
5	Clinical: <ul style="list-style-type: none"> • Single Aushadhi Prayoga (Single drug trial/ Clinico-pharmacological studies.) • Amayika prayoga of aushadhi(Pharmaco epidemiology) for studying their role in clinical practice in contemporary period -observational study-minimum. 	05

(Handwritten Signature)

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