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Department / Discipline Specific Course

RASASHASTRA AND BHAISHAJYA KALPANA

SEMESTER I

Sr.no.	Topic	Hrs
1.	Theory and practice of fundamental principles of Rasashastra & Bhaishajya Kalpana (Shodhana, Bhavana, Marana, Jarana, Samyoga, Kala, Samskara etc.) – scientific approach	15
2	Pharmaceutical processing of different categories of Rasa Yoga (Kharaliya, Parpati, Kupipakwa and Pottali) along with relevant classical and contemporary tools and techniques.	6
3	Pharmaceutical processing and methods of preparation of different primary and secondary formulations (Panchavidha Kashaya Kalpana, Churna, vati, Avaleha, Asava Arishtha etc.) along with relevant classical and contemporary tools and techniques.	15
4	Latest advancements and technologies adopted for the preparation of Tablets, capsules, Avaleha, Asava Arishtha, Sneha Kalpana, external applications (Ayurvedic creams/ ointments/gel/liniments/facewash)	10
5	Miscellaneous: Herbal extracts, Nutraceutical and functional foods (Pathya Kalpana), health drinks, Eye drops, herbal biscuits, soaps, jams and candy.	6
6	New drug development methodology and relevant guidelines	4
7	Methodology for developing SMP, SOP, standardization and Quality control techniques of classical and contemporary Rasa and Bhaishajya formulations	4
8	Stability, labeling and export guidelines (national and international)	4

SEMESTER 2

Sr.no.	Topic	Hrs
1	Experimental studies applicable in Rasa Shastra/ Bhaishajya Kalpana, Formation and Functions of Institutional Animal Ethical Committee, Formation and Functions of Institutional Human Ethical Committee, LD 50 study, D&C, OECD and other national and International guidelines for acute and chronic toxicity, specific toxicity (dermal, genotoxicity, reproductive toxicity etc.), CPCSEA guidelines.	15
2	Methodology of studying Elemental toxicology in <i>invitro</i> / <i>invivo</i> and human subjects, Phase IV – Pharmaco-epidemiological studies, Post marketing surveillance and dose determination	4
3	Clinical study applicable in Rasa Shastra/ Bhaishajya Kalpana	2
4	Statistical standardization applicable in Rasa Shastra/ Bhaishajya Kalpana	2
5	Recent techniques for Identification and authentication of raw materials used in the preparation of Kashtaushadhi/ Rasaushadhi. (HPTLC, HPLC, GCMS, FTIR, AAS, UV, XRD, SEM-EDAX, NMR etc.)	10
6	Laws and Acts governing the pharmaceutical production and marketing of Ayurveda formulations	
	The Drug & Cosmetic Act 1940 -relevant chapters and sections dealing with Ayurveda	7
	Laws pertaining to Drugs and Magic remedies (Objectionable Advertisement) Act - 1954.	2

	Prevention of Food Adulteration (PFA) act.	2
	Food Standards and Safety Act – 2006	2
	Laws pertaining to Narcotics	2
	Factory and Pharmacy Acts	2
	Consumer Protection Act -1986	2
7	Pharmaco-vigilance: importance and modes of its implementation: Pharmacovigilance definition, Implementation, Pharmacovigilance centers, Adverse Drug Reaction, Adverse Drug Event, Side effects, How to report ADR Ayurvedic concept of Pharmacovigilance, Benefits of implementation of Pharmacovigilance of Ayurvedic drugs, Difficulties in implementation of Pharmacovigilance of Ayurvedic drugs, Role of Pharmacovigilance centers in educating general public regarding expected side effects of Ayurvedic formulations.	6
8	Management of pharmacy, store and inventory management, Good Manufacturing Practices related to Ayurvedic drug industry, Pharmaceutical Marketing, product release and withdrawals, Hospital Dispensing and Community pharmacy	10
9	Patenting and Intellectual Property Rights, National and International Pharmacopoeias and policies related to drug control.	4