Advance Technique in Pharmacology and Pharmacogenomics

- 1. Nama, Rupa, Guna and Yukti Jnana of Ausadha Dravyas
- 2. Adulterants, Substitutes and Controversial Drugs in Ayurveda.
- 3. Advanced technologies in analytical study like Genetic markers, HPTLC, etc;
- 4. Knowledge on advanced modern pharmacognostical tools
- 5. Advanced experimental pharmacological studies include –cell line studies etc;
- 6. Practical knowledge on tissue culture techniques;
- 7. Detailed knowledge about new branches like Pharmacogenomics, Drug designing, molecular biology, biotechnology, nano technology;
- 8. Detailed knowledge about Neutriceutical, cosmoceuticals, phytoremediation techniques etc; Knowledge in advanced pharmaceutical techniques;
- 9. Practical knowledge about standardization of ayurvedic drugs
- 10. Knowledge of biodiversity, endangered medicinal species.
- 11. 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.
- 12. Knowledge of tissue culture techniques. Knowledge of Genetically Modified Plants

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Knowledge about Medicinal Plant Research

- 1. Utilization of agricultural techniques in medicinal plant cultivation;
- 2. Detailed knowledge about genetically modified plants and its application in medicinal plant research; Rasa panchaka analysis –using advanced pharmacological techniques;
- 3. Detailed knowledge about plant toxicology;
- 4. Knowledge about the addition of new drugs in pharmacopeia.
- 5. Knowledge in the field of food and nutrition, dietetics;
- 6. Knowledge about latest publication in the field;
- 7. Pharmacologycal principles and knowledge on drugs acting on various systems.
- 8. 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.
- 9. Knowledge of clinical pharmacology and clinical drug research as per GCP guide lines.
- 10. Knowledge of plant extracts, colors, flavors and preservatives. Review of important modern works on classical medicinal plants published by Govt of India, department of AYUSH and ICMR.

TEXT BOOKS/ REFERENCES:

- 1. Abhinav Buti Darpan (Vol.1-2) Vd. Roop Lal Vaishya
- 2. Aushadna Vigyna Shastra Acharya Pt. Vishvanatha Dwidevi
- 3. Ayurvediya Aushadnkarma vigyana Acharya V.J. Thakur
- 4. Bedi Vanaspati Kosha Prof. Ramesh Bedi
- 5. Bhaishajyaguna Vigyana Dr. Alakhnarayan Singh
- 6. Bhav Prakash Nigantu (English) Shreekanthamurti
- 7. Bhav Prakash Nighantu With Vd. Krishna Chandra Chunekar commentary
- 8. Bhrinad dravyagunadarsha Mahendra Kumar Shastr
- 9. Classical Uses of Medicinal Plants Acharya Priyavrata Sharma
- 10. Controversial Medicinal Plants Vd. G. Bapa Lal
- 11. Dalhana Ka Dravyaguna Shastra Ke Kshetra Me Yogadana Vd. Shiv Kumar Vyas
- 12. Pharmacological basis of Medical Practice Goodman & Gillman
- 13. Pharmacology and Pharmacotherapeutics Satoskar Bhandarkar & Ainapure