

GUJARAT TECHNOLOGICAL UNIVERSITY

M.Pharm PHARMACOGNOSY SEMESTER: II

Subject Name: INDIAN SYSTEMS OF MEDICINE

Subject Code: MPG203T

Scope: To make the students understand thoroughly the principles, preparations of medicines of various Indian systems of medicine like Ayurveda, Siddha, Homeopathy and Unani. Also focusing on clinical research of traditional medicines, quality assurance and challenges in monitoring the safety of herbal medicine

Objectives: Upon completion of this course the student should be able to

1. To understand the basic principles of various Indian systems of medicine
2. To know the clinical research of traditional medicines, Current Good Manufacturing Practice of Indian systems of medicine and their formulations

Sr No	Course Contents	Total Hrs
1	Fundamental concepts of Ayurveda, Siddha, Unani and Homoeopathy systems of medicine Different dosage forms of the ISM. Ayurveda: Ayurvedic Pharmacopoeia, Analysis of formulations and biocrude drugs with references to: Identity, purity and quality. Siddha: Gunapadam (Siddha Pharmacology), raw drugs/Dhatu/Jeevam in Siddha system of medicine, Purification process(Suddhi).	12
2	Naturopathy, Yoga and Aromatherapy practices a) Naturopathy - Introduction, basic principles and treatment modalities. b)Yoga-Introduction and Streams ofYoga. Asanas, Pranayama, Meditations and Relaxation techniques. c)Aromatherapy– Introduction, aroma oils for common problems, carrier oils	12
3	Formulation development of various systems of medicine Salient features of the techniques of preparation of someof the important class of Formulations as per Ayurveda, Siddha, Homeopathy and Unani Pharmacopoeia and texts. Standardization, Shelf life and Stability studies of ISM formulations	12
4	Schedule T – Good Manufacturing Practice of Indian systems of medicine Components of GMP (Schedule – T) and its objectives, Infrastructural requirements, working space, storage area, machinery and equipments, standard operating procedures, health and hygiene, documentation and records. Quality assurance in ISM formulation industry - GAP, GMP and GLP. Preparation of documents for new drug application and export registration. Challenges in monitoring the safety of herbal medicines: Regulation, quality assurance and control, National/Regional Pharmacopoeias	12
5	TKDL, Geographical indication Bill, Government bills in AYUSH, ISM, CCRAS, CCRS, CCRH, CCRU	12

REFERENCES

1. Ayurvedic Pharmacopoeia - The Controller of Publications, Civil Lines, Govt. of

- India, New Delhi, 2004.
2. Handbook on Ayurvedic Medicines with Formulae, Processes & Their Uses - H. Panda 2nd Revised Edition, NIIR PROJECT CONSULTANCY SERVICES, New Delhi, 2013.
 3. The Ayurvedic System of Medicine: (In 2 Volumes) - Kaviraj Nagendra Nath Sengupta, Sri Satguru Publications, New Delhi, 1999.
 4. Ayurvedic Pharmacopoeia. Formulary of Ayurvedic Medicines, Government of India, Ministry of Health and Family Welfare, Department of ISM & H., 2006.
 5. Homeopathic Pharmacopoeia of India, Controller of Publications, Government of India, Ministry of Health and Family Welfare, Department of ISM & H., 1974
 6. Homeopathic Pharmacy: Theory and Practice - Steven B. Kayne, 2nd Edition, Elsevier Churchill Livingstone, 2006
 7. Indian Herbal Pharmacopoeia, IDMA, 1st Revised Edition, IDMA, Mumbai, 2002
 8. British Herbal Pharmacopoeia, BRITISH Herbal Medicine Association, UK.
 9. GMP for Botanicals - Regulatory and Quality issues on Phytomedicine - Robert Verpoorte and Pulok K. Mukherjee, Business Horizons, New Delhi, 2003.
 10. Essentials of Food and Nutrition - M. S. Swaminathan, Bangalore Print. and Pub., 1985
 11. Clinical Dietetics and Nutrition - Antia F P, 4th Edition, Oxford University Press, Delhi, 2002
 12. Yoga-the Science of Holistic Living - Vivekananda Kendra Prakashan, 1988, Bangalore.