ELECTIVE - I: ETHNOBOTANY AND PHARMACOGNOSY

Unit I

Introduction to Ethnobotany – History and development of ethnobotanical study – cum scope and potential applications.

Plant structures, functions and applications – Introduction – Basic biology of high plants – Basic bio-chemistry – Variation in physical structure – variation in chemic characteristics.

Traditional botanical knowledge- Introduction — The documentation and interpretational traditional botanical knowledge — collecting ethnobotanical evidence, the dynamics and distribution of traditional botanical knowledge.

Unit II

Methods in ethonobotanical study – General ethonobotanical techniques, Anthropological field methods, linguistic and other symbolic analysis, plant collection and taxonomy, Archalobotanical methods, Information systems.

Traditional Botanical knowledge and subsistence – wild plant resources – Nature, distribution and technology of wild resources, managing wild resources Domesticated plants and traditional agriculture – Ethnoecology and traditional agricultural practice, Farmer-breeders, traditional agro forestry.

Unit III

Applied ethnobotany: commercialization and conservation – practical applications of ethnobotanical data sustainability and viability economic and ecological concerns – Developing practical solutions legal mechanisms and ethical codes.

Unit IV Pharmacognosy

History, Definition and scope of pharmacognosy – Traditional Indian system of medicine, ayurvedha, siddha, unani, Naturopathy – Definition of drug, classification, natural drugs – Morphological classification, chemical classification & chemo taxonomical classification.

Unit V

Collection and preparation of natural drugs for market – Macroscopic characters – therapeutically and pharmaceutical use of the drugs fermium, Nux-Vomica, Vinca, capsicum and Neem, mytochemicals used in non-medical applications, phytochemistry and pharmacology of traditional medicine.

References:

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- 2. Ethnobotany 1996. R.K. Sinha. In a shree Publ. Jaipur.
- 3. Ethnobotany 2002 P.C.Trivedi. Aaishkar Publ. Jaipur.
- 4. CRC Ethnobotany desk Reference. 1999 T. Johnson CRC Press, New York.
- 5. Arumugam KR and N. Murugesan Text book Pharcology Sathya Publ.
- 6. Text book of Pharmacognosy T.E. Wallis CBS Publ.
- 7. Pharmacognosy S.B Gokale, C.K.Kokate and A.Purohit. Niarali Prakashan, Pune.
- 8. Ethnobiology 2001. R.K. Sinha and S. Sinha Surabi Pub. Jaipur.