

Elective course I (EC) Herbal Technology

Unit – I

Pharmacognosy – Definition and history, Indian systems of medicine – Siddha, ayurvedha, and Unani systems. Taxonomy of locally available medicinal plants, their chemical constituents and medicinal uses – Classification of Crude drugs – Chemistry of Drugs – Future of pharmacognosy.

Unit – II

Classification of medicinal plants – Vernacular name and family – Geographical source, cultivation, collection, and processing for market and commerce in crude drugs. Morphological and histological studies, chemical constituents – Therapeutic and other pharmaceutical uses. Underground stem – ginger, Alpinia – Roots – Rauwolfia – Belladonna – Aerial parts – Bark – Cinchona.

Unit – III

Leaves – Adathoda, Eucalyptus – Flower – Clove fruits seeds – Nux vomica Nutmegs, Gooseberry – unorganized drugs – Gum – Acacia – Resin – Turpentine, fixed oil – castor oil.

Unit – IV

Herbal medicines for Human ailments – Drugs acting on cardiac diseases, cerebral diseases, Nasal, diseases – Blood pressure Drugs acting on Nervous system – Depressants. – stimulants – Respiration and Drugs – Urogenital system and drugs – Psychoactive plants.

Unit – V

Propagation of medicinal plants – Micro and macro propagation conservation of rare medicinal plants Role of biotechnology in medicinal plants banks – cultivation of medicinal and aromatic plants – Drug adulteration- methods of Drug evaluation, Herbal food – Food processing – packaging – Herbal sale and Export of medicinal plants – marketing – Intellectual property rights – Export laws.

References

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3. Jain, S.K (1980) Indian Medicinal plants.
4. Kokate, C.K., Durohit, A.P. and Gokhale, S.R., Pharmacognosy by 12th edition – Nirali Prakasham Publishers, Pune.
5. Kumar N.C. (1993) An Introduction to Medical Botany and Pharmacognosy.
6. Nadkarni (1981) Indian Materia Medica.
7. Shah, S.C. and Qudary (1990) A text book of Pharmacognosy.
8. Wallis, T.E, Text book of pharmacognosy by 5th edition. CBS publishers and distributors, New Delhi.