

UNIT-I

1. Technology for production of crude drugs
 - Factors involved in cultivation, collection, preservation and storage of plant drugs.
 - Medicinal plant growth regulators.
 - Disease management of medicinal and aromatic plants.
 - Mutation, polyploidy, hybridization with special reference to natural drugs

UNIT-II

2. Profiles for commercial cultivation technology and post harvest care of following medicinal and aromatic plants - Aswagandha, Senna, Ergot, Opium poppy, Aloe, Digitalis, Periwinkle, Safed musli, Ginseng, Squill, Strophanthus, Jethropha, Lemon grass, Geranium, Patchouli, Clove, Sandalwood.

UNIT-III

3. Isolation, Estimation and Utilization of Sennosides, Digoxin, Quinine, Podophyllotoxin, Caffeine, Taxol, Atropine, Solasodine, Ginsengoside, Vincristine and Vinblastine, Ouabain, Strychnine, Nimbidine.
4. Profile for manufacture and commerce of Papain, Pectin, Starch and Gelatin.

UNIT-IV

5. Distribution of chemical groups and its confirmation
6. Distribution of unorganized drugs in nature and its importance
7. Surgical Sutures and Ligatures
8. Traditional system of medicines-Ayurveda, Siddha, Unani, Homeopathy, TCM (Traditional Chinese Medicine)

REFERENCES:

1. Pharmacognosy by Trease and Evans
2. Pharmacognosy by Kokate, Purohit and Gokhale
3. Wealth of India, CSIR Publication
4. Essential of Pharmacognosy by Dr.S.H.Ansari
5. Pharmacognosy & Phytochemistry by V.D.Rangari
6. Phytochemical Methods by J.B.Harborne
7. Indian Herbal Pharmacopoeia, IDMA, Mumbai
8. Practical Pharmacognosy by T.E.Wallis