

GUJARAT TECHNOLOGICAL UNIVERSITY

B.Pharm
SEMESTER: VIII

Subject Name: Commerce of herbs and Phytoconstituents

Subject Code: 2280014

Teaching Scheme				Evaluation Scheme			
Theory	Tutorial	Practical	Total	Theory		Practical	
				External	Internal	External	Internal
3	0	0	3	80	20	0	0

Sr No	Course Content	Teaching hrs
1.	Contribution of natural products in modern drug discovery: overview of drug molecules discovered from natural products; detailed study of following in drug discovery: vinca alkaloids, morphine, atropine, δ -tubocurarine, ephedrine, artemisinin, camptothecin, taxol, curcumin, diosgenin, papain etc.	5
2.	World-wide trade in medicinal plants: withania, senna, liquorice, echinacea, ginseng, aloe, ipecac, boswellia, guggulu etc	5
3.	Industrially important aromatic plants and their derived products.	5
4.	Herbal Drug Trade: WHO guidelines on good agricultural and collection practices (GACP) for medicinal plants. Geneva; WHO guidelines on good manufacturing practices for the manufacture of herbal medicines; International trade, drug registration for export import.	5
5.	Production, supply and distribution.	5
6.	Wild harvesting, cultivated material.	5
7.	Constraints to the development of trade.	5
8.	Herbal Drug/Intellectual Property Rights (IPR).	5
9.	Medicinal plant based industries in indigenous system of medicine (ISM), standardization.	5

References Books:

1. Atal CK and Kapoor LD; CSIR, 1982, Cultivation and utilization of Medicinal plants.
2. Handa SS, 1996, CSIR, Supplement to cultivation and utilization of Medicinal plants.
3. Atal CK and Kapoor LD, CSIR, 1982, Cultivation and utilization of Aromatic plants.

4. Handa SS and Kaul CL; CSIR, 1998, Supplement to cultivation and utilization of Aromatic plants.
5. Chaudhary RD, Herbal Drug Industry, Eastern Publications, New Delhi.