

GUJARAT TECHNOLOGICAL UNIVERSITY

BACHELOR OF PHARMACY

Semester: VII

Subject Name: **Pharmacognosy VI (Herbal Drug Technology)**

Subject Code: **270005**

[THEORY]

Sr. No	Course Content	Total Hrs.
1.	Introduction, classification and study of different chromatographic methods and their application in evaluation of herbal drugs	8
2.	Marine Pharmacognosy – Studies on novel natural products from marine source	4
3.	Chemotaxonomy of medicinal plants	4
4.	Natural allergens, photosensitizing agents & fungal toxins	4
5.	Insecticides, pesticides and herbicides	3
6.	Herbal Cosmetics	2
7.	Plant Sweetners & Bitters	2
8.	Traditional drugs (Part II) Entire herb- <u>Shankhpushpi</u> , <u>Punarnava</u> , <u>Brahmi</u> , <u>Neem</u> Leaf- <u>Talispatra</u> Rhizome & Roots- <u>Rasna</u> , <u>Nagarmoth</u> Fruit- Gokhru, Colocynth Bark- <u>Ashok</u> , <u>Kanchnar</u> Unorganized- Guggul	18

[PRACTICAL]

1. Identification of crude drugs mentioned in theory.
2. Microscopic study of underlined drugs.
3. Isolation, estimation and chromatographic studies of phytoconstituents.
4. List of practicals
 - I. Morphology and microscopy of – Shankhpushpi
 - II. Morphology and microscopy of -Punarnava
 - III. Morphology and microscopy of- Brahmi
 - IV. Morphology and microscopy of- Kanchnar
 - V. Morphology and microscopy of- Rasna
 - VI. Morphology and microscopy of- Nagarmoth

- VII. Morphology and microscopy of- Ashok
Morphology of Colocynth
- VIII. Morphology and microscopy of- Neem
- IX. Morphology and microscopy of- Talispatra
Morphology-Gokhru
- X. Isolation of-Nicotine
- XI. Isolation of - Berberine
- XII. Isolation of- Caffeine
- XIII. Isolation of-Quinine

Text Books:

1. Mukherjee Pulok, Quality Control of Herbal Drugs: An Approach to Evaluation of Botanicals.
2. Kalia A.N., Textbook of industrial Pharmacognosy, C.B.S. Publisher, New Delhi.

Reference Books:

1. Vaidya Bapalal, Some Controversial Drugs in Indian Medicine, Chaukhambha Orientalia, Varanasi.
2. Anonymous, Wealth of India-Raw Materials.
3. Anonymous, Ayurvedic Pharmacopoeia of India, Govt. of India
4. Kirtikar K.R., Basu B.D., Medicinal plants, Volume-III, 2nd edition (reprint), M/S Periodical experts.
5. Trease E. and Evans W.C., Pharmacognosy, 16th edition, Balliere Tindall. Eastbourne, U.K.
6. Anonymous, Quality Standards of Indian Medicinal Plants, ICMR.
7. Chauhan M.G., Microscopy of Leaf Drugs, Jamnagar Ayurveda University.
8. Chauhan M.G., Microscopy of Bark Drugs, Jamnagar Ayurveda University.