

## 15PH805.E.4 HERBAL DRUG TECHNOLOGY

### THEORY 3 hours/week

#### MODULE -I

Definition of Herbal drug, Importance of Herbal therapies, Herbal versus conventional drugs, Safety in herbal drugs, Toxicity in Herbals and their interactions.

#### MODULE -II

Herbs used as nutraceuticals and healing agents  
Herbal cosmetics.

#### MODULE -III

Preparation of herbal medicines for common ailments like cold, skin infections and diarrhoea. Analytical Profiles of selected herbs – Brahmi *Aradrographispaniculata*, Aegle marmelos and *Gymnemasylvestre*.

#### MODULE -IV

Quality Control and Quality Assurance of Herbal ingredients as per W.H.O. guidelines – Determination of tannins, Ash value, Extractive value and Pesticide residues.

#### MODULE-V

Patenting of herbal drugs: Definition, Benefits of patent protection, patent application, intellectual property rights with special reference to phytoconstituents.

#### RECOMMENDED BOOKS:

1. Trease and Evan's Pharmacognosy 15<sup>th</sup> edition
2. Indian Herbal Pharmacopeia Vol-I and II
3. Quality Control methods for medicinal plant material by W.H.O., Geneva.
4. Quality Control of Herbal drugs by Dr. Pulak K. Mukherjee
5. Botanical safety hand book by Michael Meguffin, Christopher Hobbs published by American Herbal Product Association.
6. Herbal drugs by P.Mukherjee
7. P.K. Mukharjee, 2002. Quality Control of Herbal Drugs- an approach to evaluation of botanicals, Business Horizons.
8. P.K. Mukharjee, 2003. GMP for Botanicals- Regulatory and quality issues on phytomedicines. Business Horizonscation Pharmaceutical Press.
9. PDR for Herbal Medicines, 2007, 4th Ed., Medicinal Economic Company, New Jersey.
10. Quality Standards of Indian Medicinal Plants, Vol. I-X, Indian Council of Medical Research, New Delhi.