#### Semester - VI

### **BBO-S603** SEC-4 Herbal Technology

MM: 100 Time: 3 hrs

Sessional: 30

ESE: 70

Pass Marks: 40

## Learning objective:

- To understand the about the medicinal herbs and herbal technology, and Pharmacognosy.
- To acquire an overall knowledge on Phytochemistry.
- To become familiar with Analytical pharmacognosy.
- To learned technique and acquire the information on tissue culture and micro propagation. Learning outcomes:

At the end of course student will be able

- The student will be able to familiar with the history and role of medicinal plants in traditional systems of
- The student will be learned and understand the active principles and methods of their testing, identification
- The student will be learned about drug adulteration, types, methods of drug evaluation, and biological
- The student will be able take the decisions for carrier point of views in research, industries and academia

## Unit 1: Herbal medicines:

(12 Lectures)

History and scope - definition of medical terms - role of medicinal plants in Siddha systems of medicine; cultivation - harvesting - processing - storage - marketing and utilization of medicinal plants.

# Unit 2: Pharmacognosy:

Systematic position medicinal uses of the following herbs in curing various ailments; Tulsi, Ginger, Fenugreek, Indian Goose berry and Ashoka.

## Unit 3: Phytochemistry:

(12 Lecturers)

Active principles and methods of their testing - identification and utilization of the medicinal herbs; Catharanthus roseus (cardiotonic), Withania somnifera (drugs acting on nervous system), Clerodendron phlomoides (anti-

# Unit 4: Analytical Pharmacognosy:

(16 Lectures)

Drug adulteration - types, methods of drug evaluation -biological testing of herbal drugs - phytochemical screening tests for secondary metabolites (alkaloids, flavonoids, steroids, triterpenoids, phenolic compounds).

# Unit 5: Tissue Culture and Micro-propagation

(8 Lectures)

Medicinal plant banks, micro propagation of important species, for example Withania somnifera; neem and tulsi;

Rid Ashell 34 talpains of Shirt