

CLUSTER UNIVERSITY SRINAGAR

Subject- Botany

UG: Semester IST

Credits -04 (01 Theory+03 Practical)

Code:UGBOT22S101

Syllabus for Skill Enhancement Course (SEC)

Marks: 25+75

Course Objective: The principal objective of this course is to impart basic knowledge about medicinal and aromatic plants and their significance

Learning Outcome: By the end of the semester, a student must be able to differentiate different medicinal and aromatic plants and their economic importance.

Medicinal And Aromatic Plants (MAPS) -I

Theory

Unit-1

Introduction to medicinal and aromatic plants

Cultivation of medicinal and aromatic plants

Factors affecting the cultivation of medicinal and aromatic plants.

Collection/Harvesting, Drying, Packing, Storage of medicinal and aromatic plants.

Utilization of medicinal and aromatic plants.

Practicals

Unit-2

Nursery bed preparation

Pot filling and soil mixing

Propagation of medicinal and aromatic plants.

Propagation through Sexual and Asexual means:

Seed, Bulbs, Rhizomes, Corms, Stolon's etc.

Unit-3

Techniques of Herbarium preparation.

Digital repository of medicinal and aromatic plants.

To prepare herbarium and study the botanical features of important medicinal and aromatic plants of Kashmir valley- Mint, Saffron, Artemisia, Datura, Lavender, Bergenia, Ocimum, Viola, Garlic, Taraxacum

Unit 4

Germplasm collection of medicinal and aromatic plants.

Visit to herbal gardens and other research centers of the UT.

Field trips to habitats rich in medicinal and aromatic plants viz-a-viz field stations of Indian Institute of Integrative Medicine (IIIM) Sanatnagar (Srinagar), Bonera (Pulwama), YarikahTangmarg to make students aware about extraction processes in medicinal and aromatic plants.

Suggested readings

- 1 Trivedi, P.C. 2006. Medicinal plants: Ethnobotanical approach, Agrobios, India
2. Purohit and Vyas, 2008. Medicinal Plant Cultivation: A Scientific Approach, 2nd ed. Agrobio, India.
- 3 Narayan Das Prajapati, S.S. Purohit, Arun K Sharma, Tarun Kumar. A Handbook of Medicinal plants. A Complete Source Book.
- 4 Glossary of Indian Medicinal Plants. R. N. Chopras, S.L. Nayar and I.C. Chopra, 1956 C.S.I.R., New Delhi