COURSE: ECONOMIC BOTANY AND BIODIVERSITY CONSERVATIONS
Course Code: BOT(N)-120

Syllabus

- Centres of origin of crop plants: Centres of Origin of important crop plants, Domestication and introduction of crops.
- Cereals, Millets and Legumes: Cultivation, production and uses of Cereals and Millets-Wheat, paddy, maize, bajra and jowar; and Legumes-Pea, Gram, Lentil, Pigeon pea, Black gram, Green gram, Rajma.
- Fruits, Vegetables and spices: General account of Fruits- Mango, apple, banana, citrus and litchi, Vegetables: Root vegetables, stem vegetables, leafy vegetables and fruit vegetables, Important spices of India.
- Fibre-yielding and Timber-yielding plants: Fibres- Cotton, jute and coir, Timber- Teak, Shisham, Sal, Chir-pine, Deodar.
- Medicinal plants and wild edibles, oils and Beverages: Medicinal plants- *Aconitum, Atropa, Cinchona, Rauwolfia* and *Ephedra,* Economically important wild edibles, Oil-Castor, coconut, linseed, groundnut and mustard, and Beverages- Tea, coffee, cocoa.
- Scope and importance of ethnobotany: Concept and history of ethnobotany, Ethnic groups of India, their food and food products, Ethnobotany and conservation of natural resources, Plants of ethnobotanical importance, Ethnomedicinal plants, Narcotic plants .

BLOCK-1: ECONOMIC BOTANY

Unit-01 : Centres of Origin of crop plants

Unit-02 : Cereals, Millets and Legumes

Unit-03 : Fruits, spices and vegetables

Unit 04 : Fibre-yielding and timber-yielding forest species

Unit-05 : Medicinal plants and wild edibles, oils and Beverages

Unit-06 : Scope and importance of ethnobotany

BLOCK-2: BIODIVERSITY AND CONSERVATION

Unit-07 : Biodiversity: Basic concepts.

Unit-08 : Biodiversity Conservation: *In-situ* and *ex-situ,* gene bank, NBPGR.

Unit-09 : Biodiversity: Hotspots, megabiodiversity centres and conservation.

Unit-10 : Floristic diversity of India and endemism.

COURSE: ECONOMIC BOTANY AND BIODIVERSITY CONSERVATIONS (LABORATORY)
Course Code: BOT(N)-120L

Syllabus

- Identification, collection and maintenance of economically important plants and plant product of cereals, sugar and starch, pulses or legumes, vegetables, timbers, beverages. Oils, fibers, fruits, and medicinal plants.

Exercise Schedule:

Exercise -01 : To study economically important plants and plant product; their collection, and identification –I.

Exercise -02 : To study economically important plants and plant product; their collection, and identification –II.