

ELECTIVE COURSES

ETHNOBOTANY (MSCBOT-608)

Syllabus

- **Ethnobotany:** Introduction; Concept; Objectives and Scope: Linkages with other disciplines
- **The Ethnic Groups:** Hill region, Arid and Semi-arid region, Peninsular India; Flora and ethnic groups
- **Ethnobotanical Studies:** Tools and techniques; Ancient literature
- **Ethnobotany –The Factors:** Life style and culture, Climate change, Land use and land cover change; Technology; Trade changes (due to war, calamities and globalization)
- **Ethnobotany and Endogenous Regulations:** Role of temple, sacred place, sacred groves and community protocols
- **IUCN and Ethnobotanical Species:** The IUCN principles, Status of ethnobotanically important species of Uttarakhand
- **Medico-ethnobotany:** Systems of indigenous medicines and their availability, Natural medicinal resources in use
- **Tribals and Ethno-medicines:** Processes of medicine production
- **Phytomedicines and Modern Medicines:** Role; Classification of drugs; Utilization practices Phytopharmaceutical Drugs: Alkaloids; Coumarins; Volatile oils; Tannins, Resins and Gums Phytorepellents: Pesticides and Antibiotics
- **Ethnobotany-** Spiritual Applications: Scientific basis of spiritual considerations; Spiritual plant species-Bargad (*Ficus bengalensis*), Pipal (*Ficus religiosa*), Padum (*Prunus cerasoides*), Banana (*Musa* spp.), Tulsi (*Ocimum sanctum*), Doob (*Cynodon dactylon*), Pati (*Artemisia* spp.), Dhatura (*Datura alba* and *D.stramonium*), Bel (*Agle marmelos*), Khejri (*Prosopis cinerania*)

Unit Schedule

Block-1-Fundamentals of Ethnobotany

Unit-1- Ethnobotany: Concept and Scope

Unit-2-Methods of research in Ethnobotany

Unit-3- Ethnobotany –The factors and Endogenous Regulations

Block-2-Ethnobotany in Practice

Unit-4- Medico-ethnobotany

Unit-5- Tribals and Ethnomedicines, Phytomedicines and Modern Medicines

Unit-6-Phytopharmaceutical Drugs and Phytorepellents

Unit-7- Ethnobotany- Conservation of sacred plants

Block-3-Ethnobotany and Conservation

Unit-8-The Ethnic Groups and Ethnobotanical Studies

Unit-9-IUCN and Ethnobotanical Species

Unit-10- Ethnobotany and conservation of plant resources