

## BBO -S501

## SEC-3 Indian Traditional Knowledge and Ethnobotany

MM : 100  
Time : 3 hrs  
L Credit  
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Sessional : 30  
ESE : 70  
Pass Marks : 40

Total Hours: 60

**Learning objective:**

- To understand the basic knowledge of ethnobotany.
- To acquire the basics concept, scope and objectives of ethnobotany.
- To acquire information on methodology and role of ethnobotanical studies on modern medicine.
- To acquire an overall knowledge of IPR and traditional knowledge.
- To become familiar with general techniques used in ethnobotanical studies and IPR, Biopiracy and traditional knowledge.
- To become familiar with major and minor ethnic groups or tribal's of India, and their life styles, plants used by the tribal's for future prospects.

**Learning outcomes:**

At the end of the course student shall be able to

- Familiar with relevance of ethnobotany in the present and future context.
- Understand about field work, herbarium, ancient literature, archaeological findings, temples and sacred places.
- Understand the medico-ethnobotanical sources in India.
- Understand the role of ethnic groups in the conservation of plant genetic resources.
- Learn and understand the ethnobotany as a tool to protect interests of ethnic groups, IPR, Biopiracy and traditional knowledge.
- Take the decisions for carrier point of views in research, industries and academia entrepreneurship etc.

**Unit 1: Ethnobotany****(12 Lectures)**

Introduction, concept, scope and objectives; ethnobotany as an interdisciplinary science; relevance of ethnobotany in the present context; major and minor ethnic groups or tribals of India, and their life styles; plants used by the tribals: a) food plants b) intoxicants and beverages c) resins and oils and miscellaneous uses.

**Unit 2: Methodology of Ethnobotanical Studies:****(12 Lectures)**

a) Field work b) Herbarium c) Ancient literature d) Archaeological findings e) Temples and Sacred places.

**Unit 3: Role of Ethnobotany in Modern Medicine:****(20 Lectures)**

Medico-ethnobotanical sources in India; significance of the following plants in ethnobotanical practices (along with their habitat and morphology) a) *Azadirachta indica* b) *Ocimum sanctum* c) *Vitex negundo*. d) *Gloriosa superbae* e) *Tribulus terrestris* f) *Pongamia pinnata* g) *Cassia auriculata* h) *Indigofera tinctoria*; role of ethnobotany in modern medicine with special reference to *Rauvolfia serpentina*, *Artemisia*, *Withania*.

**Unit 4: IPR and Traditional Knowledge:****(16 Lectures)**

Role of ethnic groups in the conservation of plant genetic resources; endangered taxa and forest management (participatory forest management). Ethnobotany as a tool to protect the interests of ethnic groups. Sharing of wealth concept with few examples from India; Biopiracy, Intellectual Property Rights (IPR) and traditional knowledge. Nature, flora and fauna, Vedic period and the cow, Bishnois and conservation.

Chait  
27/5/22

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27/5/22

N. Singh

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Palpans

27/5/2022

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