

**UNIT – I**

**Forest Ecology**

Basic ecological principles and concepts.

Abiotic and Biotic Components of forest ecosystem.

Fundamental Concepts Related to energy in Ecological system. Food chain, food web and Tropic structure.

Ecological Pyramids.

Biotic Community Concept.

**UNIT-II**

**Wildlife Management**

Wildlife Conservation and Management

National Parks and Sanctuaries.

Project Tiger

Vanishing Species.

**UNIT-III**

**Wildlife Protection Act**

General idea of wildlife protection act, 1972.

**UNIT- IV**

**Forest Policies**

Brief idea of Forest policies of 1984, 1952, 1988.

Need for new policy.

**UNIT - V**

**Forest Law**

Brief Knowledge of Indian Forest act, 1927

Forest Conservation act, 1980

**UNIT – I**

**Forest Soils**

Definition and Function of Soil, Importance of Soil  
Soil Formation, Soil Properties and Soil pollution

**UNIT-II**

**Forest Pathology**

Definition, kinds of symptoms of diseases, methods of control , Root Diseases and their control, Heart Root, Nursery diseases, Common Diseases in Selected Forest Tiger.

**UNIT-III**

**Forest Entomolgy**

Classification of class insecta with distinguishing characters, Pests of Important Forest Trees and their control, Pests of Nurseries.

**UNIT- IV**

**Forest Protection**

Introduction, Factors affecting forest protection and kinds of forest protection measures, Protection of forest crop Injuries by-Man, Animals, Plants, Adverse climatic factors.

**UNIT - V**

**Forest Engineering**

Building Materials, Building Construction, Forest Roads, Forest Bridges

**List of Reference books:**

1. Forest Entomology - B.K. Bakshi.
2. Ecology and Environ Soi -Rastogi Publication
3. Wildlife Management -S.S.Negi/L.S. Khanna
4. Indian forest act - Manual
5. Forest Laws and Policies - Manual
6. Soil Seine -Deji
7. Forest Patrol by -Restom
8. Forest Enquiring -L.S. Khanna
9. Reads Bridges -L.S. Khanna
10. Introduction of Ecology -E.P. Odum

**FORESTRY  
PRACTICAL**

**MM: 50**

**List of Practicals**

1. Ecology - Quadrates for density abundance and frequency.
2. Study of components of forest ecosystem.
3. Visit to National Park or Wildlife SENTRY.
4. Study of Soils.
5. Soil pH