



बिलासपुर विश्वविद्यालय, बिलासपुर (छत्तीसगढ़)

SYLLABUS B.SC. PART-I

FORESTRY PAPER I

MM: 50

UNIT- I

The Forest & Forestry (An Introduction)

Definition of forest & forestry, component of forest, classification of forest, growth and changes in the seedling, sapling, pole and trees

UNIT- II

Principle of Silviculture

Introduction, definition, scope, and objective of silviculture, relation of silviculture with forestry and its branches, Influence of forest on environment, factors of locality

UNIT- III

Forest Vegetation & Its Distribution

Botanical area of India, distribution description of forest type in India, forest & climate

UNIT- IV

Plantation Forestry

Nursery and its establishment, method of sowing & plantation, industrial plantation & energy plantation, protection of plantation

UNIT- V

Geology & Forest Soil

Definition & introduction of Geology and Pedology, soil profile & soil group, soil formation, soil properties



UNIT- I

Regeneration Of Forest

Natural regeneration, artificial regeneration, tending operation

UNIT- II

Silviculture System

Introduction of the following system, high forest system, coppice system, improvement felling

UNIT- III

Silvics of Important Tree Species

Sal, Teak, Sissoo, Bamboo, Pine, Casuarinas, Khamer, Eucalyptus

UNIT- IV

Water Shed & A Forestation

Introduction to soil erosion & importance of soil and water conservation, concept & characteristics of watershed, choice of species to problematic areas such as Ravine lands, saline & alkaline areas, mined areas & wet lands.

UNIT- V

Handling Of Forestry Seeds

Fruit & seed collection & processing, storage of seeds, seed dormancy & seed testing

REFERENCE BOOKS

1. Principles and practices of Silvicultures L.S. Khanna, A.P. Dwivedi.
2. Systematic Botany, M.P. Shilva, R.S. Mathur
3. Forest type of India-Champion & Seth
4. Forestry in India, V.P. Agrawal, K.P. Sagraia
5. Hand book of Forestry, S.S. Negi
6. Forest plantation, R.K. Luna & Chakravorti
7. Forest nursery



List of Practicals

1. Measurement of Diameter, girth, height etc.
2. Nursery management
3. Identification of Forest spp. And their economic importance
4. Visit to Forest areas
5. Regeneration surveys
6. Reforestation
7. Handling of nursery stock
8. Field planting methods