

FRN-101: INTRODUCTION TO FORESTRY

SYLLABUS

Definition: Forest and forestry; Silviculture and silvics; Scope and classification; Status of forests in India and their role and History of forestry development in India

Factors of locality (Climatic, edaphic, physiographic, biotic and their interactions)

Tree growth and development: Tree morphology: Root system, crown, branches and foliage, stem- buttressing and fluting, size of tree and root system, form of root, adaptability and mycorrhizae

Tree growth- Phenology, Seed germination and seedling establishment and seasonal progress of growth, height and diameter growth and reproduction

Crop morphology- Crown and canopy; crop height, bole form, diameter and crop density

Natural regeneration: Object and methods of natural regeneration, seed production, seed dispersal, germination and establishment, requirement for natural regeneration and Dieback in seedling with examples

Artificial regeneration: Object and methods of artificial regeneration

Tending operation: Weeding, cleaning, thinning, increment felling and improvement felling, Pruning and lopping, Control of climbers and undesirable plants