UNIT- I: SILVICULTURE


UNIT - II: FOREST MENSURATION AND MANAGEMENT

Forest Mensuration - Definition and objectives. Measurement of diameter, girth, height, crown and volume of trees - methods and principles - tree stem form - form factor. Volume estimation of stand - age - basal area determinations Stem and
UNIT- III: FOREST UTILISATION AND WOOD TECHNOLOGY

preservatives - definition - kinds of preservatives - method of preservative application - pressure and non-pressure processes - classification of wood based on seasoning behaviour.

UNIT- IV: FOREST SURVEYING AND ENGINEERING


UNIT- V: FOREST SOILS AND SOIL CONSERVATION AND WATERSHED MANAGEMENT


UNIT- VI: FOREST ECONOMICS, POLICIES AND LEGISLATIONS

Fundamental principles of forest economics - cost benefit analysis - NPV, IRR analysis - demand and supply estimation. Socio-economic analysis of forest productivity - attitudes and analysis of trends in national and international markets - assessment of market structure. Forest valuation - direct and indirect valuation -

UNIT VII: FOREST BIOLOGY AND BOTANY


UNIT -VIII: WILDLIFE BIOLOGY AND MANAGEMENT


UNIT- IX: FOREST PROTECTION

Role of forest protection in Indian forestry. Injuries caused by various agencies - by human beings, plants, animals, insects, birds, adverse climatic factors. Forest fire - beneficial and adverse causes - fire protection methods and rehabilitation. Pests and diseases of economic trees - control measures for pests and diseases for major tree species - biological, chemical and integrated pest and disease management methods. Termites - types and their management. Alien or invasive weeds and their management - forest encroachments and grazing.
UNIT - X: AGROFORESTRY AND SOCIAL FORESTRY


Dated 14.07.2017